

Celebrating 50 Years as the University Of Alberta's Alumni Publication

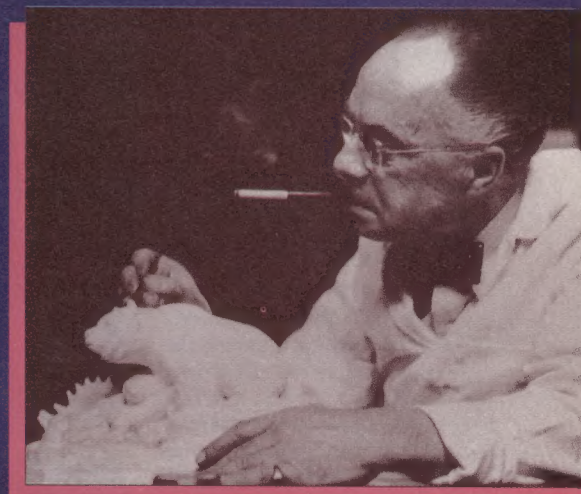
NEW TRAIL

SUMMER 1993

**William Rowan:
Scientist, Artist,
Teacher**

**The Science of
Computing**

Alumni Travel



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NEW TRAIL

When I was six years old my family — my father and mother, younger sister and I — left the farm near Drumheller, Alberta where I had lived since birth. We moved across the Red Deer River and some 40-or-so kilometres further southeast to a ranch where my father had accepted a job.

I was in heaven. My heroes had always been cowboys, and here I was living among men who made their living in the saddle. I watched them rope and ride and drive the cattle, and it was wonderful.

That same year — 1957 — a man whose name I wouldn't know for many years passed away. He was William Rowan, the first head of the University's zoology department, an outstanding scientist and teacher, and one of the legendary professors from the University's past.

Rowan, too, had tasted the life of the cowboy. As a young man he had been educated in preparation for a job in the British public service, but his spirit of adventure took him to the Canadian west, where he found work as a ranch hand. In his free time he studied and sketched the prairie wildlife, and when he returned to Britain it was to continue his education with studies in zoology.

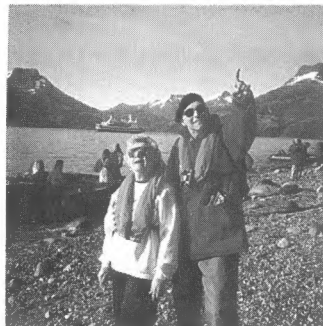
The ranch to which my family moved in 1957 was located almost midway between Hussar and Dorothy in southern Alber-

ta. In the course of preparing the feature story on Rowan for this issue of *New Trail*, I was surprised to discover that it was in this same area that Rowan had spent his cow-punching days.

My reference sources had Rowan stepping off the train in Gleichen, Alberta in 1908 and later working on a ranch near Dorothy. If you were to take a map of Alberta and draw a line between Gleichen and Dorothy, it would almost intersect a body of water labelled on the map as Seiu Lake. It was on the east shore of this lake (which we knew as Little Duck Lake) that the home to which we moved in 1957 was located, and I am sure the lake would have attracted Rowan like a magnet, for in the fall and spring it was alive with migrating waterfowl.

The fact that the path of my life and that of Rowan crossed — or may have crossed — in such a tenuous way might seem of little consequence, but to me it is something to savor. William Rowan was that sort of a man: in life, he was larger than life and, even though he has been dead more than 35 years, the impression he made on this University and this province is such that I find it pleasant to think that he may have once frequented the patch of prairie that figures so prominently in my childhood memories.

Rick Pilger
Editor



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The Alumni Association's travel program is a wonderful way for graduates to see the world.

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We look at some of the research activity in the Department of Computing Science 25 years after the department awarded its first BSc degree in honors computing science.

The Memorable William Rowan 14

One of the most colorful characters from the University's rich history is William Rowan, the first professor of zoology. An outstanding scholar, he was also a talented artist and musician.

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As a scientist, William Rowan contributed new understandings about animal behavior, but his legacy goes beyond that for he was also a talented wildlife artist and a memorable character.



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New Trail is the University of Alberta alumni magazine. It is published four times per year by the University of Alberta Alumni Association.

ISSN: 0824-8125 Copyright 1993

Strategic Plan Unveiled

Degrees of Freedom is the name the University's Strategic Planning Task Force has given to a report that identifies excellence, accountability and accessibility as three key initiatives for the University in the future. The report released on 21 April, a draft of the final document that will be presented in the fall, has been made available to the University community and the public over the summer in the hopes that the task force recommendations will prompt additional comments and suggestions.

The task force made 40 recommendations based on 127 verbal and written submissions from individuals and groups on the future direction of the University. President Paul Davenport, who chaired the 13-member task force, said, "Those who met with us or wrote to us were largely united on one point: the University needs to be selective in planning its future, in order to protect excellence in all our activities in the face of budgetary restraint."

The report emphasizes a commitment to providing degrees that will be acknowledged internationally for their value, excellence, and ability to meet both academic and community needs. Davenport said there is an emphasis on accountability in the draft report. "We seek to propose measures that will show how we're progressing towards particular goals, so that we're not only accountable to our internal communities, but also to our external communities."

Addressing issues of accessibility, the draft report recommends developing alternative ways of offering undergraduate programs; encouraging more students to begin studies at transfer colleges; offering undergraduate degrees through night and weekend courses; and promoting video and computer technology for off-campus education.

The task force recommends improving accountability by conducting and publishing exit surveys of graduating students;



The University needs to be selective in planning its future, says President Davenport.

establishing a universal course evaluation; and compiling annual statistics about registrations, graduation and withdrawals. General recommendations include establishing advisory and visiting committees in each faculty, surveying employers to determine their degree of satisfaction with graduates, and tracking career performance of graduates.

The task force's members were chosen from the Board of Governors, Senate, administration, faculty, students and the larger business community. Copies of *Degrees of Freedom* are available from the University's Office of Public Affairs.

Windfall to Women's Studies

An anonymous donor, identified only as a member of the University Library staff, has given the women's studies program \$10,000 towards its library collection — the largest personal cash donation to the University Library in recent memory, says Merrill Distad, Library collections coordinator.

At an April reception to celebrate the donation, director of libraries Ernie Ingles read a note in which the anonymous benefactor called the donation "just one of the many ways we give a little bit more to show our commitment to higher learning." The donor asked that the money be used wherever it was needed, and women's studies was identified as a relatively new program competing for scarce resources.

According to Kathy Carter, liaison librarian to the women's

studies program, the budget for books was previously only \$2,000 annually. The program is entering its sixth year, offers 13 courses, and is in the process of implementing graduate and honors programs. "Women's studies has never had such a tangible expression of support and confidence in our future," says Ann Hall, director of the program.

"This donation exemplifies that sense of belonging to the community" that is felt by many University staff, says Lois Stanford, vice-president student and academic services.

Twelfth Canadian Business Leader Award Presented

Robert Stollery, '49 BSc(Eng), joined an elite group of Canadian businessmen in March when he was recognized as an outstanding leader by the University's Faculty of Business. Earlier recipients of the Canadian Business Leader Award include **Max Ward, '70 LLD (Honorary)**, **Robert Poole**, and **Francis Winspear, '51 LLD (Honorary)**.

Stollery is chairman of PCL Constructors, the employee-owned successor company of Poole Construction, which Stollery joined as a field engineer in 1949. By 1969 he had risen through the ranks of district manager and vice president to president, and he became chairman and CEO in 1977. In 1990 he passed CEO responsibilities to Joe Thompson. One of the largest construction companies in North America, PCL has 21 branches and annual sales of \$1.4 billion: the equivalent of one \$5 million building a day.

A perpetual supporter of the University, Stollery told the 750 gathered for the Canadian Business Leadership Dinner, "Our international company believes that the quality of education you have received at the University of Alberta stacks up very well indeed against other North American graduates." His University involvements over the years have included founding and chairing the Faculty of Business Adviso-

ry Council and serving as a member on the board of trustees of the U of A 1991 Foundation.

Stollery's professional and community affiliations include the Edmonton Community Foundation, the Edmonton Concert Foundation, the Conference Board of Canada, and the Edmonton Construction Association. He sits on the boards of Federal Industries Ltd, PCL-Braun-Simons Ltd, Toronto Dominion Bank, and Trans Canada Pipelines.

New Pharmacy Chair Endowed

A company that owes its existence to the discoveries of two U of A professors is investing back in the University by endowing a new research chair in the Faculty of Pharmacy and Pharmaceutical Sciences.

Biomira, an Edmonton-based pharmaceutical research company that employs 180 people, was formed in 1985 by Pharmacy professor Tony Noujaim and Immunology professor Michael Longenecker. Many of its staff members participate in University teaching programs and many are graduates, says Alex McPherson, president and CEO of Biomira Inc.

The new Biomira Chair in Immunoconjugates will be devoted to developing and researching drugs for cancer diagnosis and therapy. Biomira has donated \$250,000 for the next five years, after which time the amount is renewable. The company will have exclusive rights to all patentable technology resulting from the research. "When the University and Biomira are joined in this venture by the Alberta Cancer Board, mainly through the Cross Cancer Institute, the effect is super synergy and super success, particularly for people with cancer," says McPherson.

At the dedication of the Chair in March, University president Paul Davenport praised the project, and said, "We believe that interdisciplinary work and partnerships with industry will both play an increasingly important role in research at the University."

Asthma Chair Established

The U of A will be the site of advanced research, teaching, and clinical care in the field of asthma through the recently-opened Alberta Asthma Centre and the new Astra Chair in Asthma Research.

Dean Befus, '70 BSc, a native Edmontonian, is both director of the Centre and the first holder of the Astra Chair. In his capacity as the Astra professor, Befus is responsible for establishing the Asthma Centre and directing its clinical, research and teaching capacities. He will also direct the pulmonary biology research group in the Faculty of Medicine. His vision for the Centre is "to better the care of asthma patients throughout Alberta, and at the same time, add new value to our health care system."

Asthma is a chronic pulmonary disease which can be life-threatening. Since there is no known cure, it must be controlled through treatment and drugs—which amount to an estimated \$15 million health care cost in Alberta annually.

"The appointment of Dr Dean Befus to the Astra Chair in Asthma Research is an exciting development and a testimony to the expertise of Canadian medical research talent in all regions, and particularly in Alberta," says Gerry McDole, president of Astra Pharma Inc, the research-based pharmaceutical manufacturer which donated \$1.5 million, matched by a grant from the U of A, to endow the Astra Chair. The Alberta Lung Association, Alberta Lung Foundation, Glaxo Canada Ltd, the Kinsmen Club and the Alberta government all contributed resources or equipment towards the Centre or the Astra professorship.

At the official opening of the Centre on 10 March, University president Paul Davenport said, "We are proud of the leadership role the Faculty of Medicine plays in the medical community. The support and investment by Astra Pharma is another example of the high regard with which the University and the Faculty are held on the national scene."



Shauna Freeman, the recipient of the Russel Jordan Memorial Scholarship in Petroleum Engineering, with Jean and Bob Jordan.

Student Earns Co-op Award

U of A petroleum engineering student **Shauna Freeman, '93 BSc(Eng)**, won an international award for co-op work after she impressed her employer by producing a \$1 million cost savings on one project and \$40,000 savings on another.

Freeman was employed by Hunter Exploration in Calgary when her supervisor noticed the initiative, motivation, enthusiasm and organizational skills that made her such an asset to the company. He was so impressed that he nominated her for the Cooperative Education Association and American Society of Engineering Award for the top co-op student in North America.

Freeman received the award at a ceremony in Newport, Rhode Island in March. Criteria for the award include contributions to the employer, the community and cooperative education, and achievements on the job and at school.

Freeman's achievements while a student at the U of A included holding office as vice-president of the student chapter of the Society of Petroleum Engineers, serving as chair of the Co-op Students' Advisory council, and acting as co-op representative for the Engineering Students' Society and Mineral Engineering Club. She also volunteered as a speaker to high school students and lectured at

the Summer Youth University.

At the Faculty of Engineering Awards and Scholarship ceremony in March, Freeman received three awards: the Amoco Canada Undergraduate Scholarship in Engineering, the Russel Jordan Memorial Scholarship in Petroleum Engineering, and the Faculty of Engineering Achievement Award. She is currently working as a production engineer with Chevron Canada Resources.

Buffalo Stampede

For the early North American settler, "buffalo chips" were a resource not to be overlooked. Their use as a fuel for cooking and heating is well known, they served as both missiles and targets for games and contests, and they were even employed as a tobacco additive.

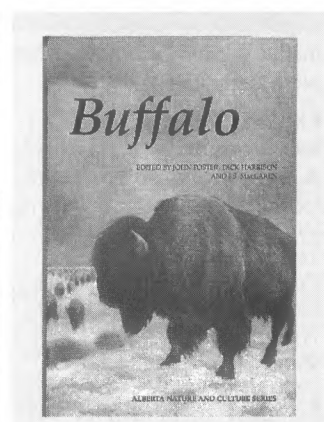
This information, and everything else you ever wanted to know about bison, is contained in the multidisciplinary book *Buffalo*, recently named Alberta Book of the Year by the Book Publishers Association of Alberta. Published last summer by the U of A Press, *Buffalo* contains 12 essays by specialists in the natural and social sciences, humanities, and fine arts. It concludes with the whimsical essay by Provincial Museum of Alberta archaeologist Milt Wright examining the merits of buffalo chips as fuel.

U of A history professor John Foster and English professors

Ian MacLaren and Dick Harrison are the editors of this first book in the Alberta Nature and Culture series. "I think we did succeed in our conscious effort to make academic work accessible to public readers. The point of this interdisciplinary exercise was to cover as many different points of view as possible," says MacLaren.

The book considers the role of the buffalo in plains ecology, its cultural significance, and its uncertain future as a species with a distinct Western Canadian flavor. Several essays relate to Wood Buffalo National Park in Northern Alberta, and the Head-Smashed-In Buffalo Jump Interpretative Centre in Southern Alberta. As well, contemporary Manitoba wildlife artist Clarence Tillerius writes of his personal encounters with the buffalo, and his bison images, and those of Paul Kane and William Rowan, are featured in the 244-page volume.

Support for the project came from the Alberta Foundation for the Arts, the University/Community Special Projects Fund, and Alberta Culture and Multiculturalism. The Alberta Nature and Culture series, for which Harrison and Foster will continue as managing editors, is to consist of annual interdisciplinary volumes that are intended as a continuation of the defunct



Book of the Year.

journal *Alberta*. The expected title of the next volume is *Women in Alberta*.

Buffalo is available at the Head-Smashed-In Buffalo Jump Interpretive Centre and libraries and bookstores across the province. It sells for \$16.95.



Whoa! That's terrific! Thanks!

You will be called by our enthusiastic students for your 1993 Annual Fund commitment. Help them help your University. Pictured above is the 1993-94 Students' Union Executive: (L-R) Terence Filewych, Suzanne Scott, Victor Cui, Joanne Bishop and Karen Wichuk.

Clothing courtesy of the University of Alberta Bookstore

Charitable Text Benefits Sociology

A non-profit society of faculty, staff and former students of the U of A Department of Sociology has contributed its work to a textbook which will benefit the department.

"It was a very creative idea," says Bob Silverman, chair of the sociology department and president of the Edmonton Sociological Society, the group that produced the textbook for introductory sociology courses. He says, "publishers are astounded that we pulled it off," considering that the editors and authors did not personally profit. All the \$15,000 proceeds to date have been turned over to the department.

The book sells for about \$30 — about \$20 less than most introductory sociology books — in the University Bookstore, and has been in use in the past academic year. Editors **William Meloff, '62 BA, '63 MA**, and **David Pierce**, both sociology

professors, have taken note of various student suggestions which will be incorporated into a second edition, which is to be published by Nelson Canada.

Students have responded positively to the text, which Silverman says "has a distinct Canadian flavor and a slightly distinctive Western Canadian flavor."

Sorry about that . . .

A couple of rather obvious errors got past us in the Spring 1993 issue of *New Trail*. Both occurred in the section devoted to BA graduates.

In one instance we had **Maxwell Martyn, '36 BA** viewing the Nuremburg Trials in 1936 — before the Second World War even began.

Elsewhere we credited **Deborah Grey, '78 BA**, with being "the first non-Tory to represent Alberta in parliament since 1972." In fact, that distinction belongs to NDP member of parliament Ross Harvey.

Around and About

■ Martian life invaded campus life in March, when a renowned expert on the planet delivered a lecture called "Implanting Life on Mars." Dr Robert Haynes, a molecular biology and genetics researcher, has worked closely with NASA on developing methods for making the red planet habitable.

■ **Susan McDaniel, '78 PhD**, a sociology professor at the U of A, has been appointed by the UN to serve on the Board of Directors of the International Year of the Family Canada Committee. In March she presented the 1993 International Women's Week lecture for Statistics Canada in Ottawa.

■ U of A Zoology student Kathleen Durante has written the Best Student Paper for 1992 in the field of ecology, as recognized by the American Society of Zoologists. Fellow student Glenys Gibson ranked second among the four students who presented their papers this spring in Los Angeles.

■ The University community was saddened this spring by the

passing of Professor Emeritus of History George Rothrock and former dean of science and vice president academic Herbert Armstrong. Dr Rothrock became an instructor at the U of A in 1964, and since then had helped the University build the best early modern European history collection housed in any library in Canada. Dr Armstrong was retired from the position of dean of graduate studies at the U of Guelph and had a distinguished career as dean of arts and science at McMaster U and as the first president of the U of Calgary.

■ Educational Psychology professor **Bruce Bain, '68 MEd, '71 PhD**, will continue to foster contact between Canadians and people in Hong Kong, China, and other Pacific Rim countries as a recently-named Fellow of the Hong Kong Psychological Society. He is active in areas such as cross-cultural psychology and communication, and intercultural education for students and teachers. Bain plans to deliver a Fellowship Address when he visits Hong Kong in December.

■ The Raymond B Cattell Early Career Award for Programmatic Research was awarded in April to a Canadian for the first time; **Jean Clandinin, '74 MEd**, an associate professor of elementary education. The award recognizes distinguished research in education within a decade of receiving a doctoral degree.

■ The golden season of Bears hockey captain and defenceman Serge Lajoie was capped when he was named top player in Canadian university hockey and Most Valuable Player in the Canada West Conference.

■ The second annual Academic Women's Association Award went to Jean Lauber, professor emeritus of zoology, who now resides in Victoria. She was one of the founders of the society and its first president.

■ Independent Ukraine's first ambassador to Canada, Levko Lukianenko, visited campus in March to deliver the 1993 Shevchenko Lecture on "Building an Independent Ukraine: Current Policies and Future Tasks."

■ Michael Hymers, a PhD Philosophy student, recently received a prestigious Postdoctoral Fellowship from the Social Sciences and Humanities Research Council. Originally he studied physics at Dalhousie U, then went on to complete a master's in philosophy. Hymers has been a student at the U of A since 1988.

■ Three University of Alberta researchers recently received Killam Annual Professorships. They are John Vedras, Chemistry; Garth Warnock, Surgery; and Dennis Vance, Biochemistry. Vedras is regarded by many as one of the best young chemists in Canada today, and is known internationally for his work in natural products chemistry. **Warnock, '74 BSc(MEd), '76 MD, '83 MSc**, is a member of the U of A team who innovated insulin-producing cell transplant therapy for diabetics. Vance's lipid biochemistry research concentrates on arteriosclerosis, and he has written the book that is the standard lipid biochemistry text at many Canadian universities.

Making Memories



Exploring the lunar-like landscape of one of the islands in the Galapagos. This archipelago, which lies 1,000 kilometres west of Ecuador, was formed in relatively recent geological time by upflows of lava from the earth's crust.

The Alumni Association's travel program takes alumni to the far corners of the globe to learn about distant lands in comfort and style.

George Chattaway, '37 BSc(Ag), has been to the high Andes and set foot in Machu Picchu, the lost city of the Incas. He's walked in Darwin's footsteps on the enchanted and enchanting Galapagos Islands. He's sampled Polynesian delicacies in Pago Pago, and gazed upon the Sydney Opera House at sunrise from the deck of a gleaming white ship.

He's seen the "wedding of the waters" where the murky Amazon and the clear-black Rio Negro conjoin. He's seen first hand the wild animals of Africa, and he's been confronted by the profound contrasts of India. He's visited the historic cities of Eastern Europe and the ancient temples of Thailand.

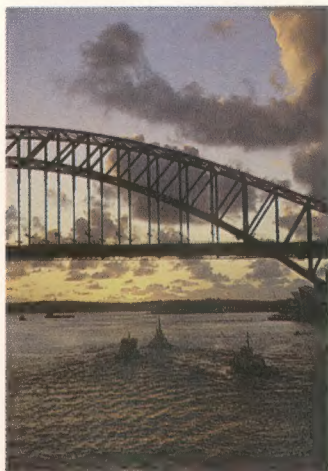
And he's done all this in the company of fellow graduates of the University of Alberta.

Chattaway, who at age 81 still maintains an active interest in his Bar S Ranch west of

Nanton, Alberta, is a veteran traveller with the University of Alberta Alumni Association, one of many graduates who, having once travelled with an alumni group, return time and again.

Helen Johnston, '58 BEd, is another graduate who looks to the Alumni Association travel program first when making her plans for international sightseeing. She has taken Alumni Association trips to China; to Thailand, India and Nepal; to Russia; and to Kenya. Her most recent alumni trip was this March, an extraordinary travel experience that took her and 13 other University of Alberta travellers to Costa Rica, the Galapagos Islands, and the interior of Ecuador.

Both Chattaway and Johnston — as their continued patronage suggests — think highly of the Alumni Association's travel program, which offers alumni the opportunity to



All of the life and color of the world await Alumni Association travellers.

Above top: The rising sun nudges Sydney Harbour to life.

Above centre: Fijian musicians serenade visitors.

Above bottom: Scarlet macaws welcome guests to Costa Rica's Cariari Hotel and Country Club.

Right: Alumni travellers Kay Doeling, '38 BA, '39 Dip(Ed), '55 BEd, and Alon Johnson, '41 BA enjoy the magnificent scenery of their 1992 Chilean Fjords travel adventure.

develop friendships with other University of Alberta graduates and strengthen ties to their alma mater while learning about distant parts of the world in comfort and style.

For Johnston, who has travelled on alumni trips alone and with a companion, an important consideration is the sense of security that comes from the detailed planning that goes into the trips, the high level of service provided at all times, and the resources of the organizations involved in offering the tours. "I feel safe," she says.

Johnston acknowledges that the Alumni Association trips are not inexpensive, but she believes they offer good value for the money. She particularly appreciates the educational aspects, which are enhanced by the knowledgeable local guides and the fact that there is often an academic — in her words, "a captive professor" — accompanying the tour to share his or her knowledge about the destinations.

The education begins even before the trip. Travellers receive ample information about the experience in store for them and the lands they will be visiting. This typically includes a reading list of books which provide a good background to the travel adventure awaiting them.

Both Chattaway and Johnson appreciate the pre-trip preparation and the professionalism and attentiveness of the tour personnel once the trip is underway, and have very good things to say about Intrav, the travel company which conducts many of the the Alumni Association tours.

Chattaway is unstinting in his praise: "I don't think there's any travel agency in the world that can approach the quality and efficiency of Intrav. They're just tops. You couldn't possibly get a better outfit — at least that's my opinion. I may be biased because I've enjoyed them so much."

Alumni affairs director Susan Peirce is pleased to hear that praise, which she knows to be well deserved. She says that the cornerstone of the Alumni Association's travel program is the high quality of service provided by the companies specializing in alumni travel with which the Association works. These include Alumni Holidays, Clipper Cruises and Travel Dynamics as well as Intrav.

"We use companies we know to be financially sound and experienced in alumni travel," says Peirce. "We look for companies whose programs have an excellent reputation with other client alumni associations throughout North America."

Peirce believes that, beyond the "excellent quality of service experienced by the travellers throughout the trip," what sets the Alumni Association's trips apart is the opportunity

they provide for graduates to travel with other university alumni from the U of A and from other Canadian and U.S. universities. "These are people who have similar education and many of the same interests," she says.

Early in each trip, points out Peirce, there is a cocktail party or similar function to help the U of A travellers get acquainted with one another. When possible, arrangements are made to include alumni living in the land being visited, and graduates living in places such as Nairobi, Vienna and Santiago, Chile have been pleased to welcome alumni travellers to their cities.

The nature of the companionship provided by her fellow travellers on the U of A alumni trips is definitely a selling point for Johnston. "I feel right at home," she says. "Most of the people talk my language — we're interested in doing the same type of things and seeing the same type of things."

Peirce says that the majority of the itineraries offered by the Alumni Association are developed specifically for the university alumni market. The trips that the Association offers in a given year are selected with regard to requests from past travellers and the uniqueness of the trip or destination, as well as past experience.

The program for 1994 is now being finalized and it will feature some of the most popular tours offered by the Association in recent years. Among these proven favorites are:

- a 15-day visit to Russia featuring a seven-night river cruise;



- a 17-day exploration of the lands "down-under," including a cruise of New Zealand;
- a luxurious 11-day trans-Panama Canal cruise;
- a 17-day discovery visit to China, complete with a Yangtze River cruise;
- a 12-day travel adventure offering glimpses of Costa Rica and Ecuador, as well as a cruise of the marvelous Galapagos Islands; and
- a 15 day Danube-Black Sea cruise from Vienna to Istanbul.

Also tentatively scheduled for 1994 are the *Marco Polo Passage*, which features a cruise of the South China Sea aboard a ship appropriately named after the great Venetian traveler, and *Italian Historic Cities and Countryside*, a 12-day celebration of a fascinating nation. In addition the Association is considering a trip designed for alumni who want to stretch their legs: a walking tour of scenic areas of northern California.

George Chattaway won't be signing up for the walking tour. He broke his leg two years ago, just when he was planning a trip to the Antarctic, and he has been "a bit stove up" since. He still hopes to someday set foot on the ice continent, but in the meantime he can enjoy memories of many happy experiences in distant lands.

"I've been very fortunate," he says, regarding the fact that he has been able to travel so extensively and the enjoyment his journeys with the Alumni Association and Intrav have



given him. "I have nothing but very happy memories . . ."

In addition to being listed in New Trail, Alumni Association trips are promoted by direct mailings paid for by the travel companies. These are mailed to alumni from specific graduation years. For information about trips being offered or the travel program in general, contact the manager, programs and services in the U of A Alumni Office. In Edmonton telephone 492-4523; elsewhere in Canada, 1-800-661-2593.



"It was a trip of a lifetime," says Donna Stewart-Williams (Cross), '48 BSc, about her experience as a University of Alberta Alumni Association traveller. She and her husband, Ray Williams, took their first alumni trip this March, the Association's Costa Rica and Galapagos Islands travel adventure, which also visited Quito, Ecuador. "I don't see how it could have been any better. The service was just marvelous," says Stewart-Williams.

Top: Beginning explorations on Bartolome Island, the Galapagos.

Above: Donna and Ray pose against the backdrop of a picture-perfect lagoon in an extinct crater of Costa Rica's Poas volcano.

University of Alberta Alumni Association 1993 Discovery Adventures

Passage to Suez Air/Sea Cruise

September 21 to October 5 \$6099

This is an opportunity to visit the timeless lands of antiquity (Turkey, the Greek Islands, Israel and Egypt) by land and aboard the *Renaissance*, one of the finest ships afloat. It has only 57 suites, all with outside views. There is also an optional four-day Luxor extension.

Wings over Kenya

September 30 to October 14 \$6649

Experience the majesty and mystery of this complex wilderness on this 15-day air safari, the ultimate wildlife and photographic adventure. Your itinerary includes the most famous East Africa reserves, highlighted by the Amboseli National Park, the Masai-Mara National Reserve, and the Mount Kenya Safari Club.

Tiger Tops

October 16 to November 1 \$6699

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Creating the Illusion of Intelligence

Jonathan Schaeffer has a PhD in computing science, an associate professorship at one of Canada's top universities, and research grants from IBM and NSERC. But to most people, he's the guy who plays checkers with a computer.

And he doesn't mind.

"I know the reputation of games," says the University of Alberta professor. "You have to understand that what I'm working on is machine intelligence. I happen to use games as my experimental domain."

Schaeffer used to work with chess, but after 10 years of increasing frustration, he did a stock-taking. "The problems I was trying to solve were just too difficult, to be quite honest," he says. "The more I thought about it I realized you had to be able to walk before you could run."

"A chance conversation" with some colleagues got him thinking about checkers. For the last four years, he's focused much of his effort and energy into developing a checkers-playing program called Chinook, all in the quest to "create the illusion of intelligence" in a computer.

Anyone wondering why there is a need to create such an illusion need look no further than their household chores. "Wouldn't you like to be able to talk to a machine and say, would you please vacuum the rug?" Schaeffer says. "Computers are essentially slaves. They'll only do what you tell them to do [but] the only way you can tell a computer what to do is by programming it."

Like others who work in the area of artificial intelligence, Schaeffer is interested in creating computers that can not only amass data, but figure out what to do with it. In other words, he's trying to develop computers that can think.

"I just drove two days ago to Drumheller," he says by way of explanation. "Coming back on the Calgary Trail is pretty damned boring. I don't know why the car can't drive itself. Why can't it know where the right and left shoulder are? Why wouldn't it be possible to have a car that is smart enough to drive itself? I could program it to say here I am, here's my destination, here's the route I want to follow and it would do the rest."

"These are things that artificial intelligence can do for us, and I think all they do is improve the quality of our life," he says. "Ultimately isn't that what all technology is supposed to be for?"

It sounds quite benevolent. But think



Jonathan Schaeffer gets some help from daughter Rebecca prior to the last game of the World Checkers Championship match held in London last year between Schaeffer's Chinook computer program and the Florida mathematician who is the best human player in the world.

about it long enough and some pretty scary scenarios come to mind: *Bladerunners*, *Terminators*, *Hal* from *2001: A Space Odyssey*.

If a computer can master a game with billions of moves, how far are we from computers that can make really important decisions, everything from who will get a heart transplant to who will rule the world?

"None of that is going to happen in my lifetime," Schaeffer says. "There are certain things I'd like to happen in my lifetime, but as with any new technology, people have to think about how it's going to evolve and make sure it's going to evolve for peaceful purposes."

Even as you read this, 100 computers, some at the U of A and the rest at Lawrence Livermore Laboratories in California, are peacefully teaching Chinook 300 to 400 million checkers positions a day, whenever they have free time. The method they're using is called parallel computing, which Schaeffer calls "the hottest research going on right now."

Parallel computing breaks a problem into small pieces and enables a number of computers to work on those pieces, so that essentially the entire problem is being solved at once. Schaeffer likens it to a system of hierarchical management, where different divisions are all working toward the same goal.

The technology is used mostly in physics, chemistry, and engineering, where it provides an efficient approach to tackling complex problems. For an

airplane manufacturer, it can mean the difference between waiting years to test a plane after it's been assembled, or testing the parts throughout the design and construction process.

For Chinook, it means the difference between winning and losing.

The program is currently learning the four to five billion possible positions when there are three checkers and one king on each side of the board. Because that's too much for one computer to handle, the problem is broken down so that each computer is responsible for roughly 10 million positions. Given enough time, Chinook will learn all 500 billion billion checkers positions.

Plenty of scientists studying artificial intelligence use games as their "drosophila." But only Schaeffer and his colleagues can lay claim to having created the second-best checkers player in the world. And if Schaeffer's predictions are on target, Chinook is on its way to becoming the best checkers player in the world.

"We believe we will have a game that plays perfectly," he says. "We believe in the next few years checkers will be a solved game. We believe it will be a draw, and Chinook will never lose. Never."

It may seem as if Schaeffer is taking the whole thing a bit too seriously: after all, it's just checkers. But for Schaeffer — indeed, for the international checkers community — Chinook has gone beyond fun and games.

"Basically we've created a monster

that's bigger than us," Schaeffer says, and he's only half-joking. "We're trying to train it to be even better, and of course it's very difficult because it's just a much better player than us. There's only one person in the world that's better, and of course he's not going to help us."

That person is Dr Marion Tinsley, a mathematics professor at Florida A&M, and the reason he's not going to help Schaeffer is that he's a better checkers player than Chinook is and he wants to keep it that way.

For more than 40 years, Tinsley has been the world's best checkers player. "The guy is as close to perfection as you can imagine," Schaeffer says.

Until three years ago, Tinsley was the official world champion. But when the World Checkers Federation refused to let him play Chinook for the championship in 1990, the Florida mathematician relinquished his title, freeing him to play Chinook in an unofficial tournament.

Chinook's qualifying for the official championship "put the checkers world in a frenzy," Schaeffer says. "A lot of people were very defensive. They said computers have no business playing for the human world checkers championship."

Tinsley, on the other hand, relished the chance to meet an aggressive opponent rather than one of the timid competitors he has to face just about every time he sits down at the match table.

"Whoever his opponent is does anything for a draw," Schaeffer explains. "As a result, checkers has become boring. But Chinook doesn't care who Tinsley is, doesn't care about his reputation. The computer is willing to go all out for the win. The computer is willing to walk along the edge of a cliff if necessary. In other words, the computer has no respect for Tinsley."

Adds Schaeffer, "Tinsley said the first time he played Chinook, it made him feel like a teenager again."

Last year, in a \$10,000 non-official world championship match held in London and sponsored by Silicon Graphics (the company that helped create the special effects for *Terminator 2*), Tinsley and Chinook tied 33 times. Tinsley beat the computer four games to two. Up till then, he had lost seven games in 43 years.

Schaeffer is in the process of arranging a rematch with Tinsley. He doubts Chinook will meet the new official world champion, Derek Oldbury of England. For one thing, it's unlikely that the World Checkers Federation would change its mind and permit Chinook to play. More to the point, Oldbury isn't the checkers player Tinsley is, and finding an

independent sponsor for a match featuring him would be difficult.

"Tinsley's record against Oldbury is 15 wins and one loss," Schaeffer says. "That one loss was in the first game they played, in 1958. Tinsley made a blunder. Now I ask you, who is the world champion? Is it Tinsley or Oldbury?"

"We would love to play Oldbury just to set the record straight," he says. "We have a problem now: Derek, being the world champion, feels he should get the same treatment as Tinsley, who played in a \$10,000 championship. If I could find a sponsor I'd do it, but nobody cares about Derek, I'm afraid."

And so Schaeffer focuses on the rematch with Tinsley, working to secure a sponsor and a venue big enough to host the event and the attendant press corps sure to show up to witness what could be a momentous occasion — should Chinook win.

"For the first time in history," he says, "computers will be demonstrably superior to humans in this problem domain."

A big win won't mean the game is over for Schaeffer, though. "It's a performance milestone, but it's not necessarily a research milestone," he says. "The work continues."

How long the work will continue on Chinook, however, is questionable. Although Schaeffer is committed to seeing a rematch with Tinsley, he doesn't pretend that he will stick with checkers forever.

"Progress is slowing down," he admits. "I might get to the point where I did in chess, where I'm hitting my head against a brick wall. Maybe I'll just call it a day one day and say, 'I'm getting nowhere. The results are just not justifying the effort.' Maybe I'll go on to something different."

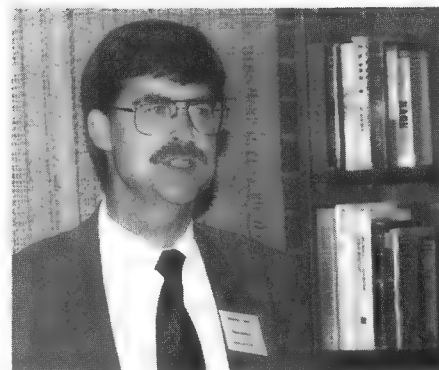
He might even go back to the game that drove him to checkers in the first place. "I've learned a lot in checkers that I could use in chess."

DEBORAH WALDMAN

Improving the Software Design Process

Paul Sorenson doesn't have anything against hand-crafting. Hand-tailored suits, hand-knit sweaters, handmade furniture . . . he thinks they're all wonderful.

And Sorenson, professor and chair of computing science at the University of Alberta, knows that there will always be a place for some "hand-crafting" of computer software — the instructions which make computers do our bidding.



Computing Science Chair Sorenson.

But he believes that there has to be a better way when it comes to designing large software systems — and that's the idea behind the ambitious Metaview project, of which he is a co-leader.

In essence, Metaview is software to aid in the software design process. "We're supporting the person developing software, as opposed to the end user," says Sorenson. As an analogy, the computing science professor makes comparison to shoe repair: "We're not developing the tools a shoemaker would use; we're developing a way of identifying what are the good tools that a shoemaker would use."

In the Metaview context, those developing the shoemaker's tools are the software designers. These are the people whom Metaview aims to help. And their work is of no little import. Eighteen months ago, a report released by Employment and Immigration Canada linked Canada's ability to compete in the global economy directly to the effective use of information technology, which, it said, "rests entirely on the availability and skills of software workers." The report, which took a gloomy view of Canada's preparedness in this area, was itself entitled "Software and National Competitiveness."

With Metaview, Sorenson and his collaborators hope to give software developers support that will make software design easier and faster and the products more reliable. When software is entirely hand-crafted — written using original coding — or written using CASE (computer-aided software engineering) products that are hard to customize, not only is the process laborious, the need for testing is great. Often only the critical sections of code are rigorously proven before implementation.

In particular, points out Sorenson, large software projects, ones in which the work of many different designers overlap, require extensive testing to ensure that the software works as

intended. And software projects can get big. Very big.

As an example, Sorenson mentions Bell Northern's switching software — probably the most complex software in Canada. He estimates that there are at least 18 million lines of code controlling the software and 1,000 people involved in testing it and making enhancements. "While the system hardware is probably changed on perhaps a two-to three-year basis, the software would be replaced about every six months," says Sorenson. "There is a tremendous amount of coordination required — to track changes made and to rerun tests and so on — to keep the software functioning properly."

Sorenson adds that a common misconception is that software development is primarily programming — the writing of code — but coding accounts for only 10 or 15 per cent of the time spent on software design. "A large portion of the software process," he says, "is defining the requirements of the over-all design and testing to make sure the software will work reliably — a lot of effort goes into that."

With the Metaview system, Sorenson and his colleagues hope to make the effort that goes into software design more productive. "What we are trying to do is allow a company or organization to find their own methodology, to create a set of tools or an environment to support the software process," says Sorenson, who points out that the software process would differ from organization to organization. A large financial institution, for instance, would have different concerns from those of a company requiring software for real-time switching.

The intention of Metaview is that it would serve in both situations. It would, in fact, adapt to any software development situation through changes made to the "meta" (a Greek prefix used to show change of condition) description that it is given. Working from this description, it would create an environment well suited to developing reliable software for the particular user's purposes. The result would be design tools that would eliminate much of the need for hand-crafting and the extra time and effort it entails.

Sorenson first began work towards a Metaview-type system in 1986. For the past four years, he has been developing an extensive prototype as a participant in the Institute for Robotics and Intelligent Systems, which is part of the Federal Networks of Centres of Excellence program. The initial prototype is scheduled to be operational this summer.

Teaching Computers to Penetrate Life's Clutter

Life is messy," observes Bill Armstrong. He's not complaining, just stating a fact central to much of his research.

Armstrong, a University of Alberta professor of computing science, is developing information processing systems that can deal with the clutter of information that characterizes life.

As humans we are good at seeing through that clutter: we can recognize a high school classmate 20 years after graduation, even though he has grown a moustache, lost most of his hair and put on weight. To be useful in many real-life situations, information processing systems must have the same ability to penetrate "noise" of various sorts by recognizing underlying patterns. And they must be able to learn quickly.

Armstrong, who has degrees from the Universities of Saskatchewan and British Columbia in Canada and the University of Goettingen in Germany, came to Alberta in 1982. He had previously worked at Bell Labs and at the Université de Montréal, where in 1974 he did a mathematical simulation for the design of the Space Shuttle's Canadarm. His Atree pattern recognition software, distributed to researchers around the world via various electronic networks, has been put to a wide variety of uses, including determining the quality of steel and grading beef.

Armstrong's interest in learning systems goes back more than 25 years, to when he first began working with artificial neural networks — information processing systems that can "learn" how to perform a task based on "experience" gained during a training period, in which the system learns to distinguish between important elements and "noise." His current research is directed at decreasing the training and execution times of neural networks to allow their use in "real-time" applications — situations in which the desired action must take place immediately.

This need for immediate response has led Armstrong to adaptive logic network (or ALN) technology, which does away with the complex numerical processing of traditional neural networks. Rather, each numerical input received is compared to an appropriate threshold value. This permits the computing system to use mathematical logic rather than arithmetic. Because it is based on logical operations (there are three: AND, OR, and NOT), which are fundamental to all digital computers,



ALN Researcher Armstrong.

this technology is very fast and its information processing demands are modest — well within the capabilities of a state-of-the-art personal computer — thereby opening up exciting possibilities for its application.

At the end of June, Armstrong will be in France to talk about one of these possibilities at the Second International Symposium on 3D Analysis of Human Movement. In his keynote address, he will outline the work being done to apply ALN technology to enhance the impressive work being done by a U of A group, headed by Dr Richard Stein, which is using functional electrical stimulation (FES) of muscles to restore a limited walking ability to some spinal-cord-injured patients.

At present, the electrical pulses that stimulate the muscle actions are controlled using switches in the patient's shoes. Armstrong hopes that highly efficient information processing methods for pattern recognition and computation can contribute to significant progress in FES. He sees the properties of ALNs, in particular their immunity to "noise" and their modest computational hardware demands, as making them well suited to this application.

The results to date in this area have been promising. In one experiment, for example, the U of A researchers recorded muscle signals in one leg of a normally walking cat. From this information and corresponding sensory nerve data, an ALN was able to learn to produce signals closely approximating the natural signals recorded from the same leg during walking.

Recently Armstrong has begun to apply his ALN technology to a different motion problem. He has obtained a contract with the Department of National Defence to investigate the feasibility of using an artificial neural network to control an active suspension system, which would improve the performance of military vehicles in off-road environments. The ultimate goal is

to design a control system that would adjust the vehicle's wheels to accommodate the terrain conditions ahead, as indicated by sensors scanning the ground immediately in front of the wheels.

Obviously this would require extremely rapid information processing

— but nothing beyond what his ALN technology is capable of, says Armstrong. He's already working with the scientists at the joint-European CERN nuclear accelerator to help the researchers there search for particular patterns of photon hits that have to be recognized in less than half a microsec-

ond (half a millionth of a second). Even that's no problem for ALN technology — because it is based on digital logic at the fundamental level, it can process information as fast as 20 nanoseconds (20 billionths of a second) or so.

And at that speed even the messiness of life seems manageable.

Beginnings of the Age Of Computers at the U of A

At the convocation on 4 June 1968, Diane Reader Jones, who now owns two national businesses based on laser video disk technology, strode across the stage of the Jubilee auditorium and received the first BSc degree in honors computing science ever awarded by the U of A.

Although that degree was a landmark for the department formed four years earlier, the history of computing at the University goes back much further. Computers were ushered in and the era of mathematical tables and hand-cranked calculators ended in 1957. That May the Department of Physics established a link with the electronic computer run by their colleagues at the University of Toronto.

Built out of World War II vacuum tubes, the FERUT (Ferranti Computer at the University of Toronto) required a large room, a crew of eight engineers and six hours of maintenance daily to run — and sometimes it ran for as long as half an hour before breaking down. Using five-hole punched teletype tape, it had the capacity of a modern pocket calculator — without the convenience or reliability.

Later in 1957 the U of A became the third campus in Canada (after the Universities of Toronto and B.C.) to enter the computer age when the Committee on Electronic Equipment invested the hefty sum of \$40,000 on an LGP-30 made by the Royal McBee Corporation of Port Chester, New York. (Equipment was upgraded to an IBM 1620 computer in 1961.)

The Computing Centre established in the Arts Building quickly became a popular facility for researchers in mathematics; chemistry; psychology; soil, plant and animal sciences; and chemical and electrical engineering. Students staffed the Computing Centre during the academic year and the summer break, providing technical support for users.

Computer programming courses were first taught in 1960 by Bill Adams,



A decade into the computer age at the University: At work in the operations room for the new IBM 360/67 computer, circa 1968. The 360/67 served the campus well into the '70s.

an employee of the Computing Centre who later became one of the first Computing Science faculty members. The 12 sessions of the course were offered in the evenings through what was then the Department of Extension.

The Department of Mathematics was the early proxy for computing science students, offering numerical analysis courses related to computing beginning in the late '50s. The first course devoted to computers rather than numerical analysis was taught in 1961 and required practical work in the Computing Centre. During 1963-64 the Computing Centre offered courses which quickly became popular with mathematics, commerce and engineering students and those in the Faculty of Extension. By 1964 eight mathematics students who had been studying in the Computing Centre received master's degrees in numerical analysis.

As demand for computing services on

campus grew, the need for a separate, degree-granting department which could offer teaching and research in the computing field as well as provide support to Computing Centre users on campus became apparent. On 1 April 1964 the Department of Computing Science was created — that name chosen instead of the more common "computer science" to emphasize that computing, rather than the devices themselves, would be the focus of the new department.

Meanwhile, those devices continued to become more sophisticated. The original IBM computers had been rented at a cost of just over \$3,000 per month when the prohibitive cost of purchasing even a used device — some \$240,000 — prevented the University from buying one. The rented IBM 1620 was replaced in 1964 and in 1967 a more modern IBM 360/67 was acquired and used until the mid-'70s.

The Memorable William Rowan

Ned Corbett never forgot the time that he shared a pot of tea with William Rowan. Corbett, whose name was at one time synonymous with the U of A's extension department, always enjoyed recounting the circumstances of his first encounter with the new zoology lecturer who moved into the office next door in 1920. "My first meeting with [Rowan] occurred when he telephoned me to come over to his lab for tea. He handed me a poisonous looking mixture of tea and Klim with his right hand, while in his left hand he held up for my inspection a cat's brain which he said was 'a most beautiful specimen.' He flipped the gory specimen into some sort of container, picked up a plate of biscuits and passed them around. That was my first and last tea with Professor Rowan," recalls Corbett in the memoirs he wrote after retiring as director of extension in 1937.

Rowan may have been entirely unaware of the effect he was creating. As Corbett — who became a good friend despite the shaky beginning — would discover, the zoologist was completely devoted to his teaching and research. On the other hand, Corbett's blithe host may have had rather more than an inkling of the impression he was making, for Rowan was also something of a showman.

Scientist, artist, musician and raconteur, the

flamboyant zoologist who died in 1957 was one of the most colorful characters in the history of the University of Alberta. And no other University researcher before or since has captured the imagination of the entire province the way Rowan did in the roller-coaster years of the '20s and '30s.

William Rowan was born in Basel, Switzerland in 1891 to parents of Irish and Danish ancestry and received his early education in France. In 1908 — the same year that the University of Alberta was opening its doors — Rowan stepped off a CPR train at Gleichen, in the heart of Alberta's ranching district. His public school education had prepared him for a career in the British public service, but he would spend the next three years working as a ranch hand — a "cow-puncher." In his free time he photographed and sketched wildlife, just as his hero, the author and illustrator Ernest Thomson Seton, had done in Manitoba.

His experience on the Canadian frontier reinforced Rowan's childhood interest in nature, and in late 1911 he returned to England to study science at University College, London. There he enrolled in the honors zoology program, but his studies were interrupted when he enlisted in the London Scottish Regiment at the outbreak of the First World War. He graduated in 1917, having received an honorable discharge from his regiment because of heart problems.

By 1919 he was back in Canada, serving as a lecturer at the University of Manitoba. It was there that Henry Marshall Tory, the first president of the University of Alberta, found him the following year and persuaded him to come further west to join his staff. The understanding was that, should Rowan prove satisfactory in the first year, he would remain at the University to found a department of zoology.

Once again Tory had displayed his prodigious talent for finding the right person for the job. Unfortunately, in this instance Tory would fail to appreciate the wisdom of his choice: as it turned out, the University president and the new zoology lecturer held very different views about science and were at odds almost immediately. Rowan's cel-



William Rowan and raven, 1953.
Courtesy University of Alberta Archives.



Buffle-Head Duckling and Dragonfly

eberrated research contributions were made without Tory's support — indeed, in spite of Tory's efforts to scuttle much of what the zoologist was doing.

No person contributed more to Canadian higher education and scientific research in the first half of this century than did Henry Marshall Tory, but his view of appropriate scientific pursuit was a very narrow one, rooted in a national boosterism focused on making Canada competitive in what Tory perceived to be an international race for progress. A tireless promoter of industrial research, Tory preferred applied work and did not care for theoretical science. He also had fixed ideas about zoological research: to his mind, it was something that took place in the laboratory — and only in the laboratory.

Rowan defined his science much more broadly. He was adept in the laboratory, but was in the forefront of the movement which would give an ecological and experimental focus to

zoology. "Rowan was a new type of scientist, unknown at the University of Alberta and elsewhere in Canada," says Marianne Ainley, principal of the Simone de Beauvoir Institute, the college for women's studies at Concordia University in Montreal. Ainley has written about the Tory-Rowan conflict ("Rowan vs Tory: Conflicting Views of Scientific Research in Canada, 1920-1935" in *Scientia Canadensis*, Summer 1988) and her 380-page biography of Rowan will appear on bookstore shelves later this year under the title *Restless Energy* (Véhicule Press, Montreal).

Ainley points out that Rowan, originally self-trained in the best tradition of British natural historians, learned precise, up-to-date laboratory methods in zoology at University College. Moreover, in his classes and during field expeditions, he acquired an ecological awareness, coming to appreciate the complex interrelationships among a region's flora and fauna and the whole spectrum of environ-

***The University's
first zoology
professor was a
scientist, artist,
musician,
and something of
a showman.***

By Rick Pilger



mental factors. Experienced in using statistical methods, Rowan liked both experimental and field research and did not care for speculative theories. Instead, he searched for basic biological principles.

By the time that he had returned to Canada, Rowan's main scientific interest was birds, and he viewed western Canada as a wonderful outdoor laboratory for ecological and ornithological studies. However, only a few weeks after Rowan's arrival at the U of A, Tory warned him to give up both field activities and bird studies and stick to the laboratory and "real" zoology — which, to Tory, ornithology was not. Fortunately, Rowan did not comply, although he was careful to confine most of his field work and ornithological pursuit to his own time — early mornings and evenings, weekends, summer holidays and so on — until Tory left the University in 1928. (But even then Rowan was not out of Tory's orbit, for the U of A's founder went on

to become president of the National Research Council, where he was able to influence the availability of funding for Rowan's research.)

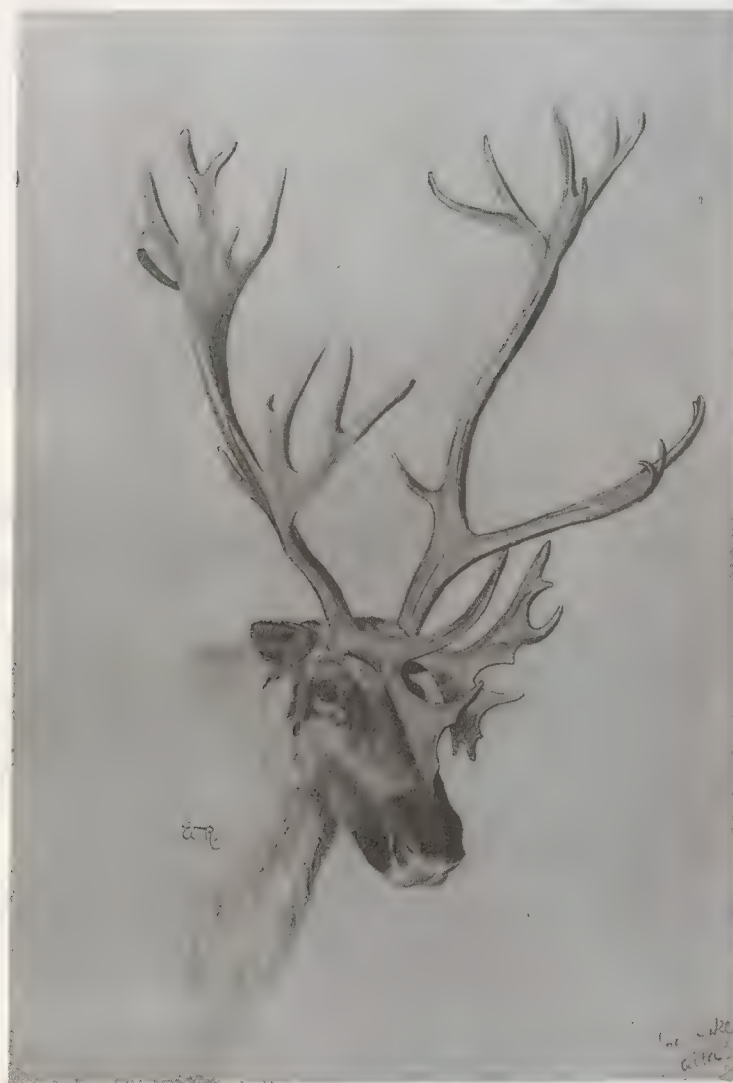
Tory may not have thought Rowan's interest in birds was real science, but history has shown otherwise. From Rowan's ornithological studies came one of the most important original contributions to scientific understanding ever made at the University of Alberta: the discovery of the importance of photoperiod (day length) in triggering migration and reproductive behavior in birds. The research that established this understanding was well known throughout Alberta, for Rowan enlisted the entire province in his study. During the Depression years of the '30s, the University of Alberta zoologist and his yellow-tailed crows provided grist for countless hours of conversation in an Alberta badly in need of distraction.

As early as 1924 Rowan had begun experimenting with the effect of hours of daylight on migratory bird species. The popular theories of the day held that migration was likely triggered by temperature fluctuation or changes in barometric pressure. Some observers had considered the involvement of photoperiod, but no one had drawn a direct connection between migration and the actual conditions of the birds' gonads — from his observation of the species migrating north through Edmonton, Rowan knew these to be at an advanced developmental state in the spring.

Seeing migration as itself a particular phase of sexual behavior, Rowan began to ask himself what would happen if one were able somehow to stimulate the gonads of migrating birds to spring excitement in the fall. Would they then fly north oblivious to other seasonal cues? To find out, Rowan began experimenting with dark-eyed juncos (*Junco hyemalis*), trapping several of these birds from the sparrow family and caging them in his back-yard in aviaries made of packing cases and discarded mosquito netting.

By artificially lengthening the daylight hours to which the birds were exposed, Rowan was able to promote spring behavior in the middle of an Edmonton winter; the male juncos began to sing and their testes began to swell. This work earned Rowan a DSc degree from University College, but a direct link to migration remained to be established: the seasonally-disoriented birds of Rowan's experiments appeared ready to wing northward into the face of winter, but it was impossible to tell where they went — north, east, west or south — when released.

Looking for "better guinea pigs of the airways," Rowan decided upon the crow. It was, he said, "omnivorous and easy to keep, avian



vermin that might be shot by anyone at any time and a species that migrates in Alberta with great regularity."

For assistance in obtaining crows for his experiments, Rowan was able to turn to his wide-ranging network of contacts. Recalls Corbett in his memoirs: "Wherever [Rowan] went he was news. This was partly due to the spectacular character of much of his experimental work, but also to a well-developed dramatic sense, a gift for humorous description of the experiments he was carrying on; and a devilish delight in giving newsmen highly colored yarns about animals, birds and fish. The newspapers were full of stories, vastly exaggerated, about his exploits. The result was that he was so widely known that it was never difficult for him to obtain the cooperation of farmers, boy scouts, or the RCMP when he needed assistance."

For his now-legendary experiment, Rowan was able to assemble 500 crows. He kept them in chicken-wire cages on the south bank of the North Saskatchewan River, where they attracted much attention from users of the High Level Bridge, which passed overhead. The crows were divided into two colonies of equal size. There was an experimental group whose cage blazed with artificial light that diminished the night in ever-increasing steps, and a control group, which experienced the natural seasonal shortening of daylight.

In November 1931, Rowan released his crows, their bright yellow tails (dyed by a local cleaner) proclaiming their special place in science. The release was accompanied by a radio and press blitz asking for public cooperation and offering rewards for every yellow-tailed crow caught or shot anywhere.

With the help of eagle-eyed "research assistants" on farmsteads throughout Alberta, Rowan was able to account for more than 50 per cent of the crows he released. In the end, more crows from the control group were recovered — fewer than 30 per cent of the crows from this group were lost — because they tended either to stay put where they were released or to head south, whereas those from the experimental group followed their surging hormones northward into less-populated regions. The experiment yielded results as conclusive as could be hoped: the birds from the experimental group went north; no others did. Photoperiod was clearly the key which unlocked the central riddle of migration.

This breakthrough in understanding gained Rowan international standing as a scientist and his prescientious papers on his research helped chart the future course of

ornithology, expanding it from merely a descriptive natural history to a realm of study incorporating avian biology. His innovative approach inspired others around the world to emulate his work, and by the 1950s investigators had studied the effects of daylight on the reproductive cycles of more than 50 species of vertebrates. Today photobiology is a thriving research area with journals, societies and annual meetings, and Rowan can be considered its intellectual founder.

In 1934 Rowan was elected a fellow of the Royal Society of Canada. Twelve years later he was awarded the Society's Flavell Medal in recognition of his contributions to Canadian science. In 1956 he retired, having served as chair of the University's Department of Zoology for 35 years; he died the following year. After his death, no less a scientist than the eminent British biologist Sir Julian Huxley described him as one of the best experimental zoologists of the 20th century.

But zoology was not Rowan's only preoccupation. He loved music and was a self-taught pianist of considerable talent. It is said that in his later years he looked back a little wistfully with the thought that had he not chosen to follow his interest in nature, he might have been a concert pianist. Rowan was also an accomplished artist, adept at sculpture, but particularly noted for his pencil sketches. In addition, he brought his artist's eye to photography, and his works were shown at the Royal Photographic Society in London and at other international exhibitions.

The multi-talented Rowan also tried his hand at working with watercolors, and the few examples of his work in this medium show that he could have readily mastered the technique. There was, however, a very good reason that he opted to concentrate on drawing: his efforts with color revealed all too plainly that he was color-blind.

After Rowan's death, an essay written by University of Alberta English professor FM Salter in memory of his colleague was included in the *Transactions of the Royal Society of Canada*. Following a brief biographical tribute describing Rowan's contributions to science and his many talents, Salter concludes with the following words of praise for a man who was larger than life: "Many-sided, many-gifted, Dr. Rowan was a man of the keenest, boyish enthusiasms. No one who had spent five minutes in his company would ever forget him. He made the science that was not a science meaningful to a whole province; and as an artist, lecturer, and man he served his time and his generation well."

Drawings and sketches by William Rowan. Courtesy of the University of Alberta Archives and Harvard University Art Museum



Mining Engineering After the Blast

On the first day of April 1993 a series of explosive blasts shook the earth at Manalta Coal's Highvale Mine about 50 kilometres west of Edmonton.

For the mine engineers who had planned and detonated the explosive charges to shift the overburden above the main coal seam and create good digging conditions for the dragline, it was all in a day's work. For another group of observers, 13 mining engineering students from the U of A, it was a not-so-routine learning experience.

As a class exercise the students had each prepared a blasting design based on the conditions and objectives which shaped the blast they would witness, and from the individual work a "class consensus" design had been prepared. After the blast the students and their professor, Dr Ken Barron, sat down with the mine engineers and discussed how the design actually used differed from the modified "textbook design" arrived at in class.

It was a welcome educational opportunity for the students and just one small example of the way in which industry-university cooperation has revitalized a program once scheduled to be eliminated.

In February 1991 the Department of Mining, Metallurgical and Petroleum Engineering at the U of A was rocked by the news that, as part of the vertical cuts being proposed to improve the University finances, it was being recommended that no new students be accepted into the mining engineering program, which would disappear.

For the Department it was a blast as powerful as the one which the students witnessed at Highvale. But, as it turned out, the program has survived and has actually been invigorated. Whatever overburden of complacency there was in regard to the program was blasted away, and a rich vein of cooperation with industry has emerged.

"Being under the axe gave us a bit of a boot," recalls Barron, who is chair of the Mining, Metallurgical and Petroleum



Mining engineering student Fenna Wieseahn at the Syncrude site, Fort McMurray, Alberta. As coordinator of mining engineering's student liaison program, she was responsible for helping her fellow students get summer jobs within the mining industry.

Engineering Department. "We started scurrying."

For help in making the case for their program, Barron and his colleagues turned to the mining industry in Alberta, Saskatchewan, the northern territories, and parts of B.C. and Manitoba — the area traditionally served by the U of A mining engineering school, the only one between Vancouver and Sudbury.

"We got a lot of support," says Barron. "Industry was very concerned about having adequate replacements for people who will be retiring in the next few years."

Ultimately a strong case was made for the program and it was given a reprieve. But an important lesson had been learned — the importance of staying relevant — and a number of initiatives have been taken to ensure continued close working relationships between the program and industry.

A first step was the establishment of an Industry Advisory Committee. Its chair is Jim Carter, vice-president, operations for Syncrude Canada, who considers the continuance of a healthy mining engineering program "vital to the large mining industry in the province." He says that when he was asked to be chair it didn't take him long to make up his mind. "I was very fortunate to have senior executives from every major Alberta mining company,

as well as Don Currie, managing director of the Alberta Chamber of Resources, sit as members of the committee. Their commitment has helped a great deal in our success so far. In a relatively short period of time we've developed a good working relationship with the mining engineering faculty," adds Carter.

Barron is careful to put the committee members' time to good use, actually getting them involved in decision-making.

One of the decisions that industry representatives are currently helping make is the selection of two new faculty members for the program. While mining lost a position when it was given its reprieve, it has been able to "borrow" a position within its department, and the impending retirement of Wayne Griffin, '58 BSc(Eng), '66 MSc, will create another vacancy. Three industry representatives are full members of the selection committee.

The Department has also recruited industry representatives for two other committees. One of these undertook a review of the program curriculum and has recommended a number of changes which will soon go before the University's governing bodies. Another committee set to work on a strategic plan for the mining engineering program — "I think it's the first time a University department has developed a

business plan," says Barron. Led by John McDougall, who holds the Poole Chair in Management for Engineers, the committee devised a 43-point plan to ensure that mining engineering thrives and survives at the University.

Central to the plan is marketing the program to students. "Mining will never be a large program — we need mining engineers but we don't need large numbers of them," says Barron, who would like to see 12 to 15 graduates from the program each year. (This number had dropped to as low as three graduates per year and Barron believes that was a major factor in putting the program "on the chopping block.")

Prime target for the marketing is the first-year engineering student not yet committed to a discipline. "Beer and pizza" evenings at which young mining graduates have talked about their jobs have proven successful in attracting these students: 17 second-year students entered mining engineering in the fall of 1991, and 14 opted for that discipline in 1992.

The business plan also commits the program to finding summer employment within the industry for its students. To help achieve this, a student liaison program has been established and its coordinator is responsible for getting résumés from her fellow students and matching them with employers. Last year 30 of 31 interested students were placed, and similar results are expected this year.

The mining engineering students also get exposure to the industry through an executive-in-residence program established to bring industry leaders to campus to lecture and consult with students.

While he cannot look back at February 1991 without recalling the blackness of the time, Barron is pleased with the developments which have since taken place: "We're going to end up a much stronger unit."

What it all comes down to is simple, says Barron: "We want to produce good students who can get jobs."

A Passion for Publishing

When you call Phyllis Arnold at work, the receptionist answers the phone sounding downright jolly: "Arnold Publishing!" she says in a sing-songy voice. "Home of the Woman Entrepreneur of the Year!"

The greeting doesn't exactly conjure up the serious image associated with educational publishing, but don't let that fool you: Arnold Publishing is not only a serious publishing company, it's successful. And one reason for that is that founder, owner — and Woman Entrepreneur of the Year — **Phyllis Arnold, '65 BEd, '72 Dip(Ed)**, is serious about making learning fun.

"For the kids of today, everything has to be fun before they really become interested," she says. "I don't see anything wrong with that. I think education and learning can be as much fun as TV and Nintendo."

In the 26 years since Arnold started her company to create social studies texts with a Canadian content, the Edmonton-based Arnold Publishing has set new standards for educational materials; teaching students important lessons by making them interesting, relevant, colorful, and fun.

"A lot of the big publishing companies — and they are just huge multinational conglomerates — they're so locked into doing things in a certain way," Arnold says. "If somebody comes along with an innovative idea, it often doesn't happen."

"I think the reason that my company's been so successful is that it's my company," she explains, "and I can do what I want."

And what she wants to do — all she's ever wanted to do with her company — is produce high quality materials that are useful and will make students want to learn. The entrepreneur title is mere icing on the cake.

"It's always someone else who wins those awards," says Arnold, who was "shocked" when she learned in November that she was one of four Canadian women being honored by the Centre for Entrepreneurship at

the University of Toronto's Faculty of Management.

"I would describe myself as a publisher — a woman publisher — not as an entrepreneur. More as a teacher than as an entrepreneur."

It was through teaching that Arnold found her way into publishing. Back when she began teaching social studies, in the 1960s, Arnold was frustrated to discover that nearly all of the materials available were produced in other countries, and national biases showed.

"There were always references to 'our president,' 'our capital,' all the great and wonderful things the British and Americans had done," she recalls.

In 1967, while doing graduate work at the U of A in social studies methods in education, Arnold decided to put together a multi-media kit on a topic in Canadian history. Her package on the Frank Slide in the Crow's-nest Pass included photos, historical documents, overhead transparencies, and a radio play complete with sound effects that recreated the day in 1903 that Turtle Mountain slid into the town of Frank.

Arnold's U of A classmates and acquaintances were equally interested in creating Canadian-specific materials. Soon they had three kits on the Mounted Police and one on the building of the railroad. Other teachers "really liked them," Arnold said. "They were so different from textbooks that were in use at the time."

And that's how Arnold Publishing was born. "I was absolutely crazy," Arnold recalls. "I would work till 2:00, 3:00 in the morning, go to bed, fall over dead. I would be up at 6:00, 7:00, in the morning. I really don't know how I survived. I was literally carrying two jobs for most of those years."

Five years ago Arnold quit teaching to devote herself to the company full-time. It was a big step for her, and frightening. But ultimately it was worth it. "You can only spend so many hours at the end of the day being creative and productive," she says. "That was really the turning point, and the best thing I did as far as the company is concerned."

Arnold Publishing now has 16



Publisher Arnold is serious about making learning fun.

employees, including two in Toronto. Her authors are all teachers, and she is never short of ideas; she and her husband, who have no children, enjoy traveling and often spend their holidays gathering book ideas.

Of the company's 62 titles, some are traditional textbooks and others incorporate filmstrips, audiotape, and texts. Arnold is particularly enthusiastic about her latest venture, developing projects that use CD ROM computerized interactive materials.

Although the company was built around social studies texts, it has branched into language arts, science, and French. Arnold books and multimedia materials can be found in schools in every province, including Quebec, where some schools use the English texts and others purchase French translations.

For someone who claims not to be an entrepreneur, Arnold has succeeded impressively in a field dominated by huge and well-established companies. Revenues from her first book, *The Soviet Union*, which the Alberta Department of Education asked her to write 10 years ago, have reached \$1.6 million in Canada and the United States. *Life in Changing China*, has sold about 40,000 copies and is one of two basic student texts that Alberta Education has approved for the grade six social studies curriculum on China.

Two years ago the National Geographic Society commended Arnold's *A Geography of Canada and the United States* for handling the subject so well. The book has since been adapted for the U.S. market under the title *Geographic Themes and Challenges*.

One of the reasons for Arnold's success is that she knows her market well. In addition to her years in the classroom, she spent time as the social studies consultant to Edmonton's Board of Education, a position that gave her plenty of opportunities to discuss with other teachers what types of textbooks work with students and what types don't.

What works, she discovered, are books that consider issues that young people care about, and books that do so with plenty of pictures and activities that reinforce the facts in a way that is fun and interesting.

That's why, when presenting the concept of colonial government circa 1663-1774 to junior high school students, the authors of *Canada Revisited* use not only historical scenarios, but also the example of an authoritarian hockey coach, who hands out orders but won't listen to his players.

In the section following the story about the hockey coach, students are asked to consider who made the decisions, how the decisions were made, and what are the advantages and disadvantages of such a decision-making system, all the while drawing parallels with what they have learned about colonial government.

The book is targeted at students in grade eight. In addition to history and stories, *Canada Revisited* contains decision-making and role-playing activities. "They are fun," Arnold says. "The kids enjoy them and they really get involved."

It isn't unusual for students to take Arnold Publishing textbooks home to read them just for fun. "I had one teacher tell me with a grade six book the kids had read the whole thing before class," Arnold says. "She had to lock [the books] away so the kids wouldn't read them before they had to study them."

Hearing that story made Arnold feel "pretty wonderful."

"I have this passion called publishing and it takes a lot of time and energy," she says, "but it's comments like that from teachers and students that keep me going."

DEBORAH WALDMAN

Alumna Breaks New Ground

The letters began "Dear Alice," and were from petroleum geologists working in far-flung corners of the globe, in places such as Africa and Indonesia.

They came to the Calgary office of Alice Payne, '62 BSc, '65 MSc, the 1992-93 president of the Canadian Society of Petroleum Geologists. During her term, she frequently heard from Society members worldwide who appreciated her efforts to promote petroleum geology beyond the Calgary area, where most of the CSPG's 4,242 members are located. "We try to maintain a national and international perspective so we don't get tunnel vision," says Payne, a senior geologist with Gulf Resources.

Payne completed her term in February, the first woman to serve as president of the CSPG since its founding in 1928. The 53-year-old Payne was responsible for overseeing publications, continuing education programs, field trips, awards, conferences and symposia that help geologists in the petroleum field achieve technical excellence. She is particularly proud of two recent boosts the Society gave to the profession.

Last June the CSPG hosted 6,000 visitors to the American Association of Petroleum Geologists' convention in Calgary. And as part of an industry field trip sponsored by the CSPG, more than 30 Canadian university students visited Alberta to visit geological sights and do field work. "They came from places like Chicoutimi — where they never could have dreamed of studying petroleum engineering without that opportunity," Payne is proud to report that five of the participating students found summer job placements through a CSPG initiative: the Society paid one month of the students' salaries, and companies paid the rest.

Payne says she tries to encourage students, particularly young women, to pursue careers in geology. Without the encouragement Payne received from her family and mentors, she says she wouldn't have overcome the



Geologist Payne

many obstacles that have stood in her way. From the time she was a young girl toting pyrite through the muskeg swamps and rocky hills of Yellowknife, Payne was determined to follow the footsteps of her gold and oil-prospecting father. She still remembers her father's first oil strike in the late '40s, watching the flames and smoke as a nine-year-old girl. Around her, family, financiers and friends celebrated with bottles of champagne, which her father had hung from nearby willows.

In spite of a grade five counsellor who told her geology wasn't a suitable career for a girl, she persevered and became the only female geology student at the U of A in 1958. Before landing a position at Gulf in 1979, the geologist had completed her master's and worked in uranium, copper, coal and gold mining, the latter with the family-owned company built from claims her father staked out in 1937.

"I've done it all," Payne says, pointing to the career flexibility that has allowed her to change directions with fluctuating commodity prices. "Geologists can do almost anything that requires imagination." A member of the Premier's Council on Science and Technology in Alberta, Payne would like to see the province move away from a petroleum-dependent economy. Should the fortunes of the oil patch fall, there is one thing left that this geologist hasn't yet mined: diamonds. "I sometimes have hankerings to go stake my own claim," she says, a glimmer in her eye. "Diamonds are the one thing I haven't done."

Another glimmer in the

former CSPG president's eye is an ongoing project she helped bring to fruition; the updating of the 1964 edition of the *Geological Atlas of the Western Canadian Sedimentary Basin*. In partnership with the provincial and federal government, the Society is helping to fund the project, by paying for the printing. Last year, half a million dollars raised from Alberta oil companies by the CSPG was earmarked for the *Atlas*, being designed and produced by the graphic services company owned by U of A alumnus Dale Hite, '75 BSc.

Payne continues to encourage young people to pursue careers in geology, through education and mentoring programs such as Alberta's Stepping Stones initiative, and a job-shadowing program for university students sponsored by The Minerva Foundation. "All young people need encouragement," Payne says, "but especially young women. They aren't encouraged enough to try the men's stuff."

Those are words to weigh carefully, nuggets of wisdom from a woman who has done plenty of "men's stuff" and broken new ground for women in geological careers.

CHARLENE YARROW

Research Prize Goes to Grad

In the frigid waters beneath the thick Antarctic ice winters the Weddell seal, rising occasionally to the surface, to gnaw breathing holes through the icy cap.

Flicking its blotchy gray, 400-kilogram body the seal aligns itself downward and dives, and dives. It can descend 600 metres, and it might be well over an hour before it emerges from its icy plunge.

Marine biologist Peter Hochachka, '59 BSc, is penetrating the secret of this seal's ability to survive the deep, cold, waters. A University of British Columbia zoology professor, Hochachka is internationally known for uncovering the biochemical mechanisms that enable species such as octopus, fish, sea-going turtles and diving seals to survive in extreme environmental conditions

where oxygen is not readily available.

For the contribution his research has made to the natural sciences, Hochachka was recently awarded a prestigious Killam Memorial Prize, one of three given each year to Canadian scientists.

The Killam prize winner's work has wide implications in fields beyond marine biology — from ecology to sports medicine. The techniques he uses to study marine animals are now being applied to study the adaptations to high altitude of mountain-



Killam Prize Winner Hochachka.

dwelling people such as the Quechas of the Andes and the Sherpas of the Himalayas.

A native of Therien, Alberta, Hochachka completed an MSc at Dalhousie University and a PhD at Duke University in North Carolina after graduating from the U of A. His prolific body of research work includes five books and more than 250 papers. Before moving to UBC, Hochachka taught at the University of Toronto, was a visiting investigator at the Woods Hole Oceanographic Institute in Massachusetts, a visiting professor at Harvard University, and a Jacques Cartier Society lecturer in France. He has participated in nine scientific expeditions to remote regions such as the Amazon, the Galapagos Islands, and Alaska.

Hochachka has been honored with the Flavelle Medal of the Royal Society of Canada, a Guggenheim Fellowship, and the Queen Elizabeth II Senior Fellowship (Australia). He received the Killam Research Prize on 19 April in Vancouver.

CHARLENE YARROW

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The Association

Spring 1993 Branch Events



On 22 April, 120 alumni and friends from 16 Canadian universities met at a reception at the Canadian Consulate in Chicago. The annual "Chicago All Canadian Universities Night" was hosted this year by the University of Alberta and sold out almost immediately. Guest speaker was President Paul Davenport, who spoke about recent developments affecting Canadian institutions of higher education. *Left:* The U of A delegation at the Chicago alumni event.



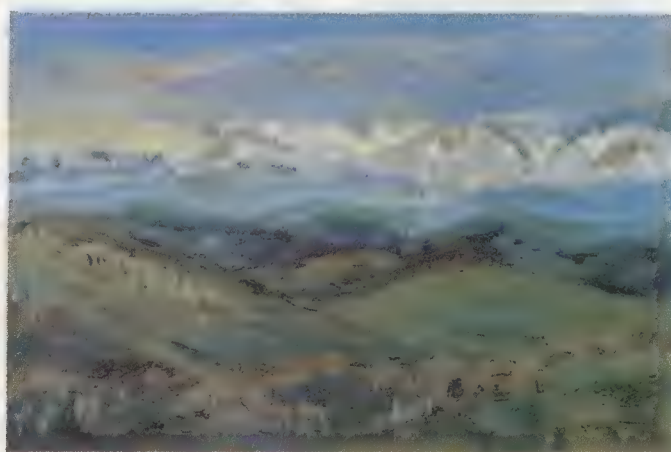
On 17 and 18 April the Victoria and Vancouver Branches held their respective annual Spring Brunches. Dr Larry Wang, professor of zoology at the U of A and inventor of the "Cold Buster Bar," was the featured guest speaker at both events. He spoke on "Traditional Chinese Remedies - Fact or Fiction?" There were 150 alumni in attendance in Victoria and over 200 in Vancouver. *Above:* Dr Wang visits with Barbara Bassett, '50 BA, of the Victoria Branch.



The Grande Prairie Branch held its Annual Dinner on 26 March with the University's vice-president (development and community affairs) John McConnell as the featured speaker. He spoke to 60 alumni and friends on "Challenges and Choices" facing our alma mater. *Above:* A highlight of the evening was the presentation of the Canada 125 Medal to Muriel Collins, shown receiving it from MLA Robert Elliot as branch president Campbell Ross, '89 PhD (left) and V-P McConnell look on.



*Thank you to
all Branch
Presidents and
their Executives
for their hard
work.*



The New York Branch offered its 150 alumni a different event this year: a special University of Alberta Alumni Art Show and Reception, held at the Government of Alberta Office in New York on 23 April. The juried exhibit, featuring 13 Alberta artists, all U of A alumni, was specially prepared for this event. Dr Davenport was in attendance and shared news of some of the exciting achievements of U of A students, faculty and staff. *Above:* Rocky Mountain Ranch by Pam Wilman, '84 BFA, appeared in the show. *Above left:* Alberta artist Lynn Malin, '64 BA, visits with classmate Mona Miller, '64 BA, of Baltimore.

MasterCard Program Provides Benefits

There are now 7,034 cardholders who can do their shopping with the University of Alberta Affinity MasterCard, which benefits the University every time it is used. The U of A card will soon celebrate the fifth anniversary of its successful inception.

The Bank of Montreal pays a percentage of the revenue it receives from purchases made with the card to the Alumni Association, which puts the funds towards various Association initiatives. Programs that currently benefit from the MasterCard revenues include the class representative system, which helps graduates stay in touch through newsletters and reunions; the host family program, connecting international students with U of A alumni; employment workshops offered for alumni; and a spectacular Reunion Weekend every fall. The Affinity card program also contributes to a number of scholarships, bursaries and awards for students and alumni recognized by the Association.

To join an elite group of spenders from your alma mater, please return the application form found on page 27 of this magazine.

Information Sharing Program Renamed

U of A students and alumni with similar career aspirations are still exchanging information, but no longer under the Student Mentoring Program introduced by the Alumni Association last spring. Instead, the program has been renamed the Occupation Information Sharing Program to better reflect the mutual benefits of interaction between students and professionals.

The program now operates under the aegis of Career and Placement Services (CaPS) in the Students' Union Building. The involvement of CaPS provides a new liaison between students and professionals. A CaPs counsellor meets with students to explain the program

and help them prepare for a productive session before allowing access to the program's registry of professionals.

The Occupation Information Sharing Program exposes students to potential benefits, drawbacks and trends in various professions and introduces them to their future alumni family. Professionals volunteer a minimum of 45 minutes to a student — a contribution of time to provide an additional dimension to the various forms of career counselling already available on campus. Participants can withdraw from the program at any time.

Are you willing to devote time to introducing a future colleague to your profession?

If you would be prepared to participate in the Occupation Information Sharing Program, please let us know.

By phone:

Telephone the Career and Placement Office at 492-4291 and mention your interest in the Occupation Information Sharing Program.

By fax:

Address your fax to the Manager, Programs and Services, Office of Alumni Affairs. Be sure to include your name, year of graduation and degree, and business and home phone numbers. The fax number is 492-1568.



Calling all students and staff, past and present!

The Department of Rural Economy's
30th Anniversary Reunion
July 14, 1993

Department Open House 2-5 pm.
"3 R's" (Reunion, Reminiscence and Roast)
Reception and Dinner
Faculty Club 6:30 pm.

For more information contact
Judy Boucher 492-0271 or
Reg Norby 436-0590 or
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Are You Unemployed?

Do you require assistance in making yourself more saleable in the competitive job market? If you do and you are a University of Alberta graduate, plan to attend one of the **Alumni Employment Workshops** scheduled for Thursday, 16 September 1993 on campus.

These workshops will be conducted by personnel from the University's Career and Placement Services and will cover the following areas:

Job Search and Résumé Workshop

9:00 a.m. to 12:00 noon

- ☐ Learn how to do a self assessment and establish a skills inventory.
- ☐ Learn about the different types of résumés and determine which one will work best for you.
- ☐ Learn effective job search techniques.
- ☐ Acquire skills to write effective covering letters.

Interview Skills Workshop

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- ☐ Apply effective job interview skills.
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Cost for each workshop is \$15 (add \$1.05 for GST) or \$25 for both (add \$1.75 for GST). If you are an unemployed alumnus looking for a part-time, full-time or career-related position, register (before 10 September) by contacting:

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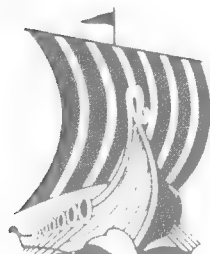
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Class Notes

'28

Dermott McInnes, BA, '31 BDiv, reports that he is in good health and doing some writing, for which he's now begun using a computer. He's also still occasionally involved in pastoral care, counselling, ministry and preaching in the United Church of Canada.

'30

Mary Ellingson (Ross), BA, is professor emeritus at the U of Evansville in Indiana and hopes to return to Edmonton to celebrate her class's 65th reunion.

'34

Guy Kinnear, BSc(Eng), has retired in Salmon Arm, B.C.

'36

Frank Peers, BA, '37 Dip(Ed), '43 BEd, was a recent recipient of the Commemorative Medal for the 125th anniversary of Canadian Federation. In his career, Frank was successively a high school teacher in Alberta, assistant director of the U of A Department of Extension and the Banff School of Fine Arts, head of public affairs programming in the CBC and professor of political science at the U of Toronto.

'37

Helen Sabin (Garfield), Dip(Nu), '38 BSc(Nu), lives in Calgary and was recently awarded an honorary degree from Athabasca U. She is a former director of the Alberta Association of Registered Nurses.

'38

Marion McGill (Crosby), BSc(HEc), and her husband have moved to the Berkeley, California area from New York City, where she enjoyed a 30-year career as a food and nutrition editor with women's magazines.

'39

Crosby Johnston, MD, is a past "Citizen of the Year" in Coquitlam, B.C., where he retired in 1979. He is an active volunteer in seniors' and community organizations "too numerous to mention," and received a Canada 125 commemorative medal.

'49

Allan Beattie, BSc(Ag), lives in

Calgary and has been inducted into the Alberta Agriculture Hall of Fame for his contributions to agriculture and rural life in Alberta. He is a former director of public relations for the Alberta Wheat Pool.

Robert Stollery, BSc(Eng), '85 LLD (Honorary), recently received the Canadian Business Leadership Award from the U of A Faculty of Business. The chairman of PCL Construction Group of Edmonton, he began his career with PCL's predecessor company, Poole Construction Ltd, in 1949.

'50

Tevie Miller, LLB, '49 BA, '91 LLD (Honorary), a former U of A chancellor, retired earlier this year from his position as associate chief justice of the Alberta Court of Queen's Bench.

Alice Coutts (Polley), BEd, and **Herbert Coutts**, '42 MA, '79 LLD (Honorary), live in Edmonton and report that Alice is active with U of A women's associations and Herbert does some professional writing.

'51

Gerald Maier, BSc(Eng), recently retired from his positions as president and CEO of TransCanada PipeLines.

'54

Thomas Jackson, LLB, '53 BA, retired in March after 39 years with the Edmonton law firm of Bishop and McKenzie. He and his wife Joan have moved to Wabamun, Alberta.

'55

Gerald Desorcy, BSc(Eng), has retired from his position with the Natural Resources Conservation Board after 38 years of service, the last five as the NRCB chairman.

Arthur Kroeger, BA, is to be appointed chancellor of Carleton U in June. He has had a distinguished career in public service for three decades, including his most recent position as deputy minister and chairman of Employment and Immigration Canada, from which he retired in 1992.

'56

Sydney Wood, LLB, '53 BA, who previously practised law with the firm McCuaig Desrochers in Edmonton, was recently ap-

pointed a Provincial Court judge.

'58

Allan Wachowich, LLB, '57 BA, who has been an Alberta Court of Queen's Bench justice since 1979, was recently appointed associate chief justice of that court.

William Bilko, BA, '69 Dip(Ed), and **Dora Bilko (Schnell)**, '56 BSc(Pharm), continue to reside in Edmonton. William retired from teaching in 1986 and enjoys fishing and travelling.

Joyce Perrin (Ayleen), Dip(Nu), '59 BSc(Nu), became director of hospital-wide quality assurance at the Security Forces Hospital in Riyadh, Saudi Arabia in January.

Cameron Strong, MD, is the vice-chair of the board of governors at the Mayo Clinic in Rochester, Minnesota and has been elected to the executive committee and the board of trustees of the Mayo Foundation.

'60

Mary-Wynn Ashford, BSc(HEc), '61 BEd, has become a member of the Board of Governors of the U of Victoria. An MD who is pursuing PhD studies at Simon Fraser U, she is known for her work promoting peace and

disarmament.

William Phillips, BA, is the new principal of Vancouver School of Theology, which is affiliated with the U of British Columbia. He has been a member of the faculty there since 1977.

'61

Robert Brintnell, BCom, has become an associate with the Edmonton accounting firm of Miller McClelland & Co.

John Fildes, BSc(Eng), retired in February after 30 years with Canadian Western Natural Gas in Calgary, where he was vice-president, operations.

Brian Reeves, BSc, '63 BA, is a U of Calgary archeology professor who was recently awarded the federal government's Heritage Award for protecting and promoting Canada's heritage. He is known for his work in the Waterton community and with the Blackfoot people of Montana and Alberta.

'62

Arthur McMullen, BSc(Eng), '64 MSc, who works for Sheritt Gordon Mines in Fort Saskatchewan, Alberta, recently gave a keynote speech at a Singapore conference on new materials and technologies.

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'63

Gerald Offet, LLB, '60 BA, lives in Regina, where he is vice-president of a crown corporation. He was recently elected president of Lawyers Concerned for Lawyers in Saskatchewan.

Peter McQueen, DDS, is a colonel in the Canadian Forces Dental Services. He was recently made a fellow of the International College of Dentists and serves as director of dental operations and training at National Defence Headquarters in Ottawa.

Erich Berendt, BA, recently became chair of English linguistics at Seisen Women's U in Tokyo and hopes to establish a new graduate program there. He previously taught at Chiba U in Japan for 20 years.

Peter Ffoulkes-Jones, BSc(Eng), is president, CEO, and director of Petrorep Resources, a Calgary oil and gas production and exploration company.

'64

Harold Bjorge, BA, was recently

promoted to associate professor of French at Augustana U College in Camrose, Alberta.

'65

Peter Melnychuk, BSc(Eng), became deputy minister of Environmental Protection in the Alberta government in February. He has served in the public sector for 30 years.

'66

Irene Morck, BSc, is the author of two novels for young adults. *Between Brothers* was published in Toronto last year (Stoddart Publishing), and her first novel, *A Question of Courage*, will be translated into French this year by a Paris publisher.

Khem Jhamandas, MSc, '66 PhD, head of the Department of Pharmacology and Toxicology at Queen's U, has been selected to receive the Upjohn Award in Pharmacology for 1993. This annual award of the Pharmacological Society of Canada recognizes significant contributions to

the advancement and extension of knowledge in the field of pharmacology and toxicology in Canada. It will be presented to Professor Jhamandas, who is internationally known for his work in the area of brain neurotransmitters and their role in drug action, at the annual meeting of the Canadian Federation of Biological Societies, where he will deliver the Upjohn Award Lecture.

'67

David Dahle, BA, '69 MA, is a professor of classics and associate academic dean of Augustana U College in Camrose, Alberta.

'68

Kenneth Coull, BSc, '82 MBA, has been appointed to the Alberta Real Estate Foundation board of governors.

David Morris, BSc(Eng), '70 MSc, '73 PhD, is president of David Morris Fine Cars in Edmonton. He was recently honored as "Dealer of the Year"

for 1992 by Mercedes Benz Canada Inc.

'69

Ed Ashton, MSc, '73 PhD, is a psychiatric nurse at Queen Elizabeth II Hospital in Grande Prairie, Alberta, where he also has a private counselling practice. Ed shows and sells ink sketches and watercolors as a member of Artists North Society.

Robert de Frece, BSc, '71 Dip(Ed), '75 BEd, a U of A elementary education professor, was recently awarded one of the Faculty of Education's first undergraduate teaching awards. **Roma Newcombe (Plante)**, BEd, '78 BA, took early retirement last year after 23 years as a high school French teacher. During her career she received a number of awards, including "Teacher of the Year" recognition from the Canadian College of Teachers and a provincial Excellence in Teaching Award for 1992. She recently wintered in California, "golfing, painting, doing calligraphy."

In Memoriam

The Alumni Association extends condolences to the families and friends of the following, whose passing has been noted with sorrow:

Gladys Alberta Morgan (Buchanan)

'17 BA, of Edmonton in April 1993

Helena Dawson Keith '22 BA, of

Vancouver in February 1993

Frank Jost Newson '24 BA, '26 LLB, of Edmonton in March 1993

Harry Melville Hunter '27 BSc(Eng), of Calgary in March 1993

Bruce Vanwart Massie '29 LLB, of

Edmonton in March 1993

Warren Douglas Suitor '34 BSc(Eng), of Edmonton in May 1993

David John Elson '35 BA, of Edmonton in February 1993

Theophilus George Finn '35 BA, of

Calgary in March 1993

Ralph Elford Maybank '35 BSc(Pharm), of Olds, Alberta in February 1993

George Oliver Prieur '35 MD, of Calgary in February 1993

John Edward McAllister '36 BA, '39 MD, of Calgary in March 1993

Mary Frances Carter (Haddow)

'39 BSc(HEC), of Victoria in March 1993

Ardis Mary Granger (Colbourne) '39 BA, of North Vancouver in December 1992

Peter Harold Koziak '39 BA, '42 MD, of Edmonton in May 1993

John Robert Stanley Hambly '40 BSc, '42 BEd, '44 MEd, of Camrose, Alberta

in April 1993

Shirley Ira Dineen '41 BA, '49 BEd, of

Victoria in April 1993

Della Irene Murphy (Hopps) '41 Dip(Nu), of Calgary in July 1992

William Pryde '41 BSc(Eng), of North

Vancouver in February 1993

Andrew Edward Mackay '42 Dip(Pharm), of Fort MacLeod, Alberta in March 1993

Gustave Adolph Engbloom '43

BSc(Eng), of Calgary in April 1993

James Alexander Love '43 BCom, of

Calgary in November 1992

Walter Trost '44 BSc, of Victoria in March 1993

Richard Atwood Morton '46 BEd, of

Owen Sound, Ontario in March 1993

Jack Mitchell Olyan '46 BSc, of Edmonton in March 1993

Arthur Wagner '46 BSc(Eng), of Calgary in March 1993

Stephen George Fustey '47 BSc(Ag), '50 MSc, of Agassiz, B.C. in March 1993

Irving Gould '48 BSc(Pharm), of

Edmonton in April 1993

David Stewart Robertson '48 BCom, of

Calgary in February 1993

Robert Lyall Soley '48 BA, of Calgary in February 1993

Lionel Everett McLeod '49 BSc,

'51 MD, '88 LLD (Honorary), of Vancouver in April 1993

John Derick Sikal '49 BSc(Eng), of

Montreal in April 1992

Robert Stanley Kavanagh '51 BCom,

of Toronto in March 1993

Elmer Leslie Taylor '51 BEd, of Calgary in March 1993

Leilah Brand Fretwell '52 BEd, of

Lacombe, Alberta in February 1993

Ena Mary Helen Driscoll (Buie) '54 BA,

'67 Dip(Ed), of Edmonton in April 1993

Laurence Gilbert Hart '54 BSc, '55 MSc,

of Medicine Hat, Alberta in May 1993

Florence Mary-Martha McFetridge

'54 Dip(Nu), of Bonnyville, Alberta in

April 1993

William Andrew Sakowsky '54 BEd, of

Edmonton in April 1993

Walter Pisesky '55 MD, of Edmonton in February 1993

Elizabeth Anne Durie (Lowe) '58

BSc(HEC), of Vegreville, Alberta in March 1993

Rosalie Ann Pinkney (Kelly) '60 BEd, of

Winnipeg in April 1993

Harry Topolnitsky '60 BEd, of Edmonton in April 1993

Muriel Mary Hansen (Lewis) '61 BEd, of

Windsor, Ontario in March 1993

Dean Charles '62 BSc, '81 MSc, of

Edmonton in March 1993

Stephen Horyn '62 BEd, of Mundare,

Alberta in May 1992

Valerie Joy Norman '64 BEd, of

Markham, Ontario, in February 1993

Lillian Pearl Plett (Chapelski)

'64 Dip(Nu), of Spruce Grove, Alberta in

February 1993

Willard Francis Chandler '65 Dip(Ed),

of Edson, Alberta in March 1993

Mary Rose Carson '68 BEd, of Edmonton in April 1993

David Laverne Lewis '68 BSc, of

Edmonton in February 1993

Kathleen Susannah Barker '71 BSc(Nu), of Edmonton in April 1993

Martha Anne Dean '71 BEd, of Edmonton in March 1993

Russel Isaac Hessie '72 BSc, of

Edmonton in May 1993

Rose Anne Bogda '74 BEd, of Edmonton in February 1993

Roger Joseph Mahe '74 Dip(Ed), '78

MEd, of St. Albert, Alberta in March 1993

Maurice Arthur Stack '76 BEd, of

Ponoka, Alberta in February 1993

Flora Gustavina Coutu (Malbecq)

'77 BEd, of Edmonton in March 1993

Harold Rupert Littke '77 MBA, of

Edmonton in April 1993

Florence Ann Traptow (Whitrow)

'78 BSc(HEC), of Calgary in March 1993

Sherry Lee Hornig (Pierce) '79 BA,

'87 BEd, of Edmonton in April 1993

Geraldine Marie MacIntosh-Fitzpatrick

'79 BEd, of Edmonton in March 1993

Grant Lyle Maxwell '82 BMus, '84 MMus,

'92 DMus, of Edmonton in March 1993

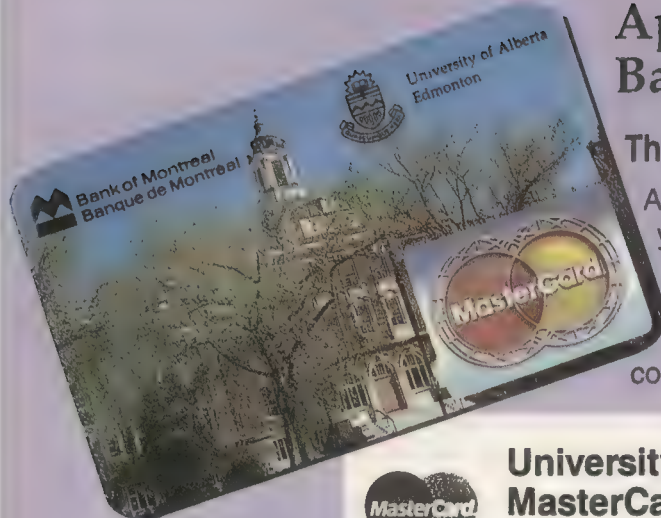
Marcia Joan Hallett-Traff '87 BSc(Nu), of Edmonton in December 1992

Dwayne John Barr '88 BA, of Brampton,

Ontario in April 1993

Raymond Wesley Kluthe '88 BSc, of

St. Albert, Alberta in April 1993



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Previous Employer if with present employer less than 2 years				Number of Years		Previous Occupation		
Previous Employer's Address								
Marital Status ☐ Single ☐ Separated ☐ Married ☐ Divorced ☐ Widowed		Spouse's Name		Number of Dependents excluding Spouse				
Name of Spouse's Employer		Number of Years		Spouse's Occupation		Gross Monthly Salary \$		
Employer's Address		City		Province		Postal Code		
Name of Nearest Relative not living with you		Relationship						
Address		Apartment Number		City		Province		Postal Code
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 Il est la volonté expresse des parties que cette convention et tous les documents s'y rattachant soient rédigés et signés en anglais.

Signature of Applicant	Date	Signature of Spouse if additional card required	Date

'70

Dean Befus, BSc, is director of the Alberta Asthma Centre and holds the new ASTRA chair in Asthma Research in the U of A's Department of Medicine.
Edward Molstad, LLB, '67 BSc, was recently elected president of the Law Society of Alberta. He is a former Edmonton Eskimo football player who now serves as counsel for the CFL Players Association and is a partner in the Edmonton law firm Molstad Gilbert.

'71

Richard Davies, BA, '72 Dip(Ed), '79 Dip(Ed), is co-author of 11 senior high school English textbooks used widely across Canada and is a member of the Edmonton performance poetry trio Spiritus.
Kingsley De Alwis, PhD, lives in Rome, where he is senior advisor, agriculture, in the investment centre of the Food and Agriculture Organization of the United Nations.

'72

Gordon Ball, LLB, is a lawyer with the Calgary firm of Thompson Ball & Anderson. He also serves as corporate secretary for Rico Resources, a Calgary junior oil company in which he is a major shareholder.

'73

Blaine Greenwood, BEd, '86 Dip(Ed), is an education officer at the Remington-Alberta Carriage Centre in Cardston, Alberta. The Centre had its gala opening early in June 1993.

'74

Donald Cummer, BA, runs his own communications company in Ottawa, where he writes speeches for private and public sector clients.
Diane Gillespie (Filby), PhD, has written *The Multiple Muses of Virginia Woolf*, recently published by the U of Missouri Press. She is an English professor at Washington State U and the author and co-editor of two other books.
James McFarland, MSc, has been appointed vice-president and general manager, oil sands, by Imperial Oil in Calgary. Previously he was director, environment and safety, for the company in Toronto.
Neil Payne, BEd, '80 MEd,

reports that he happily retired in November from "the frustration of B.C.'s educational system" and moved back to Camrose in "Sunny Alberta."

Alexandra Rudnitsky-Chernenko, MA, is the author of a book of poetry called *On the Way to the Other Shore*, published by the Ukrainian Writers' Association in Edmonton.

Ross Sherwin, BSc, '76 Dip(Ed), '87 MLS, is a librarian at Mount Royal College in Calgary.

'75

Jeanne Burch, LLB, '73 BA, who practised law with the Edmonton firm of Barr, Wensel, Nesbitt and Reeson, was recently appointed an Alberta Provincial Court judge.

Ross Estabrooks, BA, works at the Alberta Petroleum Marketing Commission in Calgary. He reports that he has "made a great recovery" from a broken neck from skiing two years ago, and has actually managed to get back to the slopes again.

Dale Hite, BSc, is the owner and a designer at Hite Graphic Services in Edmonton. The company specializes in corporate communication graphics and is currently involved in the design and production of the *Geological Atlas of the Western Canadian Sedimentary Basin*.

Gael MacLeod, BCom, has been appointed executive director of the Alberta Real Estate Foundation in Calgary.

'76

Clayton Sissons, LLB, '75 BA, has been appointed chairman of the board of governors of Medicine Hat College. He is vice-president of I-XL Industries and chairman of Clayburn Industries.

Greg Lefebvre, BCom, recently joined Apex Land Corporation in Calgary as senior development manager.

Michael Muc, PhD, has been promoted to full professor at Augustana U College in Camrose, Alberta.

Gary Tomick, BA(RecAdmin), '83 BCom, writes that he has been given a leave from the Alberta Sport Council to serve as sport manager for the Victoria Commonwealth Games Society, which is organizing the games to be held in Victoria, B.C. in August 1994.

'77

Arthur Sebzda, DDS, '75 BSc, is

a dentist in Stony Plain, Alberta.

Eric Peterson, LLB, '74 BCom, who served as chairman of the Alberta Legal Aid Society, has been appointed to the bench of the Provincial Court.

Robert Dunk, BEd, who lives in Calgary with his son, recently completed a teaching contract at SAIT. Previously he taught industrial arts in Saskatchewan.

Michael Gormley, BA, '82 MA, recently became assistant executive director (health policy and

economics) for the Alberta Medical Association. His background includes positions with the B.C. Medical Association, Saskatchewan Health and the Ontario Medical Association.

Neil Hughes, BMus, has completed an MA in musicology at the U of Georgia, where he and his wife are faculty members in the library.

Paul Johnson, BA, '90 MA, has been named acting chair of fine arts at Augustana University

1993 Class Reunions

The Alumni Association is happy to assist individual classes in organizing special events during the homecoming activities of **Reunion Weekend '93** (October 1-3, 1993) or reunions at other times. The following classes are currently planning reunions:

Class/Place/Date/Contact

- '23 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '33 Graduating Class Edmonton/Reunion Weekend/Sylvia Evans, Jack Kerns
- '33 Home Economics Edmonton/Reunion Weekend/Harriett Shiels
- '33 Arts Edmonton/Reunion Weekend/Rita Hoggins
- '38 BSc & Dip Nursing Edmonton/Reunion Weekend/Helen Sabin
- '38 Medicine Calgary/September 8-11/Rupert Clare
- '43 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '43 Engineering Edmonton/Reunion Weekend/Walt Hiller
- '43 Chemical Engineering Edmonton/Reunion Weekend/TC Elliott
- '43 Arts Edmonton/Reunion Weekend/Marjorie Gibson
- '43 Dentistry Edmonton/Reunion Weekend/Otto Hauck
- '43 Home Economics Edmonton/Reunion Weekend/Teri Beauchamp
- '43 Law Edmonton/Reunion Weekend/J. Louis Lebel
- '43 Sept Dip Nursing Edmonton/Reunion Weekend/E Markstad-Buchanan
- '43 January Medicine Calgary/September 8-11/Robert Pow
- '49 Home Economics Edmonton/Reunion Weekend/Sheila McLaggan
- '50 Civil Engineering Edmonton/Reunion Weekend/George Stefanick
- '52 Home Economics Edmonton/Reunion Weekend/Marilynn Sangster
- '53 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '53 Medicine Calgary/September 8-11/Frank Haley
- '53 Commerce Edmonton/Reunion Weekend/Betty Leadbeater
- '53 Agriculture Edmonton/Reunion Weekend/Arthur Reddon
- '53 Civil Engineering Edmonton/Reunion Weekend/Glen Jones, Neil Longson
- '53 Home Economics Edmonton/Reunion Weekend/Phyllis Humphreys
- '53 Law Edmonton/Reunion Weekend/Norman Witten
- '53 Phys Ed Edmonton/Reunion Weekend/Stephen Mendryk
- '53 Dentistry Edmonton/Reunion Weekend/Dave Buchanan, Ron Mullen
- '58 Medicine Calgary/September 8-11/Alastair McLeod
- '63 Agriculture Edmonton/Reunion Weekend/Gerald Coen
- '63 Civil Engineering Edmonton/Reunion Weekend/HD Richardson
- '68 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '68 Pharmacy Edmonton/Reunion Weekend/Arlene Ponting, Barb Bayer
- '68 Home Economics Edmonton/Reunion Weekend/S Brown, M Scott
- '68 Education Edmonton/Reunion Weekend/Jane Sterk
- '68 Commerce Edmonton/Reunion Weekend/Phil Ponting, Les Tutty
- '68 Law Edmonton/Reunion Weekend/Dennis Thomas
- '68 Rehab Medicine Edmonton/Reunion Weekend/Wendy Patterson
- '68 Phys Ed Edmonton/Reunion Weekend/Clare Algajer
- '68 Agriculture Edmonton/Reunion Weekend/Hank Vander Pluym
- '68 Sept Dip Nursing Edmonton/Reunion Weekend/Liz Bonneville
- '68 Medicine Calgary/September 8-11/Murray Lieberman
- '73 Dip Nursing Red Deer/August 20-22/Laurie Rutherford
- '83 Medicine Kananaskis/July 9-11/Dawna Gilchrist
- '88 BScNursing Edmonton/September 4-6/Janice Shute
- '92 Physio Edmonton/June 26-27/Cara Kaup

Some locations and dates are tentative. Should you require information about the reunions noted, or if you wish to organize a reunion for a class or group not listed, please contact the reunion coordinator in the Office of Alumni Affairs at (403) 492-3224.

College, where he is an assistant professor of drama.

Randall Maradyn, BCom, who has been with the Calgary energy company Luscar since 1977, was recently appointed Luscar's vice-president, human resources.

Brent Poloway, BSc, lives in North Carolina, where he is compliance manager for Heritage Environmental Services in Charlotte. He writes that he became engaged last Christmas.

'78

Janice Kuster, PhD, and **Robert Keenan**, '84 MD, live in Pittsburgh with their two children. Robert is an assistant professor in the cardiothoracic surgery department at the U of Pittsburgh, and Janice is teaching enrichment classes in math and science to elementary students. **Colleen Stewart**, Dip(Nu), '88 BSc(Nu), is a case coordinator in home care with the Edmonton Board of Health. She writes that she recently moved into a new home.

'79

Helen Tymoczko, LLB, '74 BSc, runs a law practice in Edmonton and serves on the board of directors of the Canadian Egg Marketing Agency in Ottawa. She writes that she recently attended the First World Congress of Lawyers in Kiev and is an active volunteer with numerous organizations.

Pamela Holtby (Bennett), BEd, volunteers in an elementary school in St. Albert, Alberta, where she works with children who need special help with reading and spelling.

Mary Kletchko, BA, '82 BFA, instructs at McKay Technical Institute in Vancouver teaching a popular graphic arts and desktop publishing course that she herself created more than six years ago. She reports that she is also studying part-time towards a master's degree in higher education from UBC.

Albert Lai, BSc(Eng), '81 MSc, '82 PhD, and **Henriette Shen**, '81 BSc(Eng), '82 MEng, who celebrated their 10th wedding anniversary in May, live in Toronto with their daughters. Albert, who is now working as a consultant, has an MBA from the U of Toronto, where Henriette is completing her PhD in environmental engineering.

Fern Snart, PhD, has been awarded one of the U of A Faculty of Education's first

undergraduate teaching awards. She is a professor of educational psychology.

Mark Swanson, BEd, '81 BA, '82 Cert(Arts), who earned an MA in religious studies from Gonzaga U, is now completing his MEd at the U of Lethbridge, on leave from his teaching position in Wainwright, Alberta. Mark is already considering further studies in either education or sociology.

Debra Wells (Mitchell), BEd, is a teacher at E.S. Laird School in Lloydminster, Saskatchewan. **Kent Williamson**, BCom, holds a management position with The Pickford Group in Calgary, where he is responsible for the development of computer systems for remote-pumping oil wells.

'80

Ethel Blondin-Andrew, BEd, is a Liberal MP representing the vast Western Arctic constituency.

Graham Fishburne, PhD, a professor of elementary education at the U of A, was recently awarded one of the Faculty of Education's first undergraduate teaching awards.

Vilis Nams, MSc, and **Marjorie Nams (Nietfeld)**, '78 BSc, write that they live with their two sons "on an old farm in the hills near Tatamagouche, Nova Scotia." Vilis is an assistant professor of biology at the Nova Scotia Agricultural College in Truro and Magi is a freelance writer who frequently writes for *Ranger Rick* magazine.

Dean Olmstead, BSc(Eng), '85 MSc, is director of clinical engineering at the U of Alberta Hospitals.

'81

Barbara Smith, '81 BA, has had her first book, *Ghost Stories of Alberta*, published by Hounslow Press. As its name suggests, the book is an anthology of ghost stories that she collected around the province.

George Gundesen, BSc(Eng), recently moved to the Vancouver area with his family and is working for Alpha Technologies as manager of engineering services.

Katherina Mahmud (Zavazal), BEd, continues teaching. She now lives in Spruce Grove, Alberta.

Darrell McMillan, BSc, was recently appointed *The Financial Post's* regional circulation manager in Vancouver.

Nadia Ransom (Zavazal), BEd, lives in Spruce Grove, Alberta, where she is raising her four children.

'82

Marci Andrews (Moroz), BEd, has been working as an adult educator in the consumer education project at Grant MacEwan Community College for the past two years.

Stephen Colleaux, BSc(Eng), and **Patricia Colleaux (Mertens)**, '81 BCom, live in Calgary, where Steve is self-employed as an electrical engineer, and Pat manages accounts payable for the City of Calgary. They recently celebrated the birth of their first child.

Jose Magathan (Dakkus), '84 DDS, '82 BSc, completed a two-year post degree in dental anesthesia at the U of Toronto last year and is now practising in Edmonton.

Jeremy Shepherd, BA, '83 Cert(Arts), is a resource consultant for Alberta Career Development and Employment in Edmonton.

Ronald Snyder, MA, lives in La Mesa, California, where he is vice-president, marketing for a

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The classes of 1943 and 1968 are planning a celebration of their 50th and 25th anniversaries in conjunction with these events. All alumni and friends are invited to take part.

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'83

Charles Chmura, BSc, is a programmer and analyst for Northwest Drug Company in Edmonton, where he lives with his wife and daughter.

John Lundy, BSc(AgEng), '86 MSc, recently moved to St. Paul, Alberta with his wife and three children. He is the manager of Lakeland Agro, an agri-chemical and fertilizer dealership.

'84

Brent Bowerman, BSc, '87 Cert(Sc), works as an environmental geologist with HBT Agra in Calgary. His work recently took him to the Czech Federal Republic, and he writes that he is "looking forward to upcoming international projects including Ecuador and a return to Prague."

Donald Dingwell, PhD, recently received a research prize from the German Science Foundation and is a previous winner of the Victor-Moritz-Goldschmidt Prize from the German Mineralogical Society. He does his research in Bayreuth, Germany at the Bayerisches Geoinstitut, Universitat Bayreuth.

Stewart McAndrews, BEd, recently became a partner in the Edmonton accounting firm Wooldridge and Company. He is active in the Edmonton Eskimo Alumni, Golden Bears Alumni and other community organizations.

Susan Querengesser, BEd, '88 Dip(Ed), is working at the U of A's Glen Sather Sports Medicine Clinic.

Teck Wong, BA, lives in Vancouver, where he is an importer/exporter of Asian and North American goods.

Alison Laidley (Schneeberger), MD, '77 BSc, is a breast cancer and breast surgery specialist in Dallas. She was named a fellow of the Royal College of Surgeons in 1990.

'85

Paul Nothof, LLB, '82 BCom, is now a partner in the Edmonton law firm of Ogilvie and Company.

Nihal Maligaspe, BSc(Nu), and his wife and three children live in Kamloops, B.C., where he is the area's director of mental health.

Brian Morse, BSc(Eng), lives in Calgary and works in oil and

gas exploration in northern Alberta and B.C.

Douglas Strickland, BCom, was recently transferred from Edmonton to Calgary, where he is a leasing manager for Trizec Properties.

Melodie Woods (Steinmann), BCom, has owned her own women's clothing store, Melodie Lane Fashionwear, in Ponoka, Alberta for the past seven years. She writes that she also does contract work for a Red Deer bank and plans to open a bed and breakfast. "It should be fun coordinating my many jobs."

'86

Rodney Neys, LLB, '83 BCom, recently became a partner in the Edmonton law firm of McLaren Ross.

Penny Albers, BEd, is team teaching in a behavior assistance class at Grosvenor Elementary School in Edmonton. She is considering pursuing master's studies in behavior assistance.

Jonathan Bayley, MMus, '88 BEd, is director of the Grande Prairie Regional College Wind Ensemble and woodwinds instructor at the college. He also serves as coordinator of the college's Conservatory of Music. In May he was the Alberta Band Festival sight-reading clinician for the Festival of Bands in Red Deer.

William Bright, BSc(Pharm), is the pharmacy operations coordinator for the Shoppers Drug Mart regional office in Calgary. He and his wife recently built a new home and are enjoying life close to the mountains.

Douglas Laurence, BSc(Eng), was recently transferred by Ford from London, Ontario to Detroit, where he is an audio systems engineer.

Carl Tokarek, BSc, recently became an associate at the Edmonton law firm of Ogilvie and Company.

'87

James Barry, BSc, works as a medical technologist in the blood bank department at the U of Texas medical branch in Galveston. "Hi y'all to all the friends back home."

Terrence Baumber, BSc(Eng), recently completed his PhD in civil engineering at McMaster U, where he works and teaches as a post-doc. His special interest is earthquake engineering.

Robert Bilko, BSc, works for parks and recreation in Victoria.

"Summer conditions all year round!" he writes.

Michael Dawson, BA, and **Linda Dawson (Gonnet)**, '85 BEd, live in Fort MacLeod, Alberta, where Linda is a teacher and Mike runs a construction business. He is also a second-term town councillor and sits on the board of directors of the Alberta Urban Municipalities Association.

Christina Hecht-Schroeder, BSc(Ag), completed a graduate degree in journalism and public relations at Arizona State U and now works as a community relations specialist for the recreation centres of Sun City West in Arizona. "After growing up in the cold country, I can't get enough of the heat," she reports.

Louise Mullen, BA, is working in a psychiatric hospital in Ireland as a health care research coordinator.

Mark Sawchyn, BSc, is an electrical engineer for a Vancouver company that makes devices for the hearing impaired.

'88

Frank Wildgrube, MD, '86 BMS, lives in South Africa and writes, "I continue my adven-

tures."

Lynne Boytzun, BCom, received law and MBA degrees from Osgoode Hall Law School, York U last year. She is now articling with the Toronto law firm of Fraser and Beatty.

Caroline Davis (Dennis), BEd, is teaching grade five in Holland Landing, Ontario. She is pursuing a specialist degree in reading at York U.

Timothy Eckert, BA, '91 BEd, works in refugee concerns with Catholic Emergency Legal Aid for Haitians in Miami.

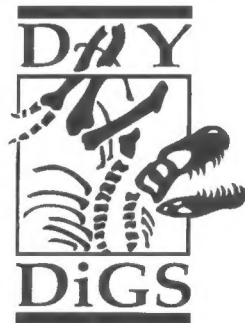
Robert Potier, BCom, lives in Edmonton and works for Costco Wholesale as a supervisor.

Kevin Rokosh, BSc(Eng), lives in Ottawa with his wife and is "busy making my 40-year-old house new again (renovating like mad)."

'89

Margaret Broughton, BSc(HEc), is working at the Renfrew County and District Health Unit in Pembroke, Ontario as a community dietician.

Mark Dixon, BCom, was married last year and works at NAIT as a marketing coordinator. He was recently appointed a director of the board of the



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Advertising Club of Edmonton. **Suzanne McClung**, BSc(HEC), is living in the Washington, D.C. area after completing a master of science degree at Cornell U. **Gaylene Pattinson (Schultz)**, BSc(Pharm), was married last summer and lives in Seattle, where she is a pharmacist. "Enjoying the climate and a wide range of outdoor activities," she writes. **Patricia Pretty**, BSc(OT), reports that she loves her new job working in pediatrics at Crystal Park School in Grande Prairie. She and her husband keep busy "training our two dogs and finding great places to snow-shoe." **Joerg Schuller**, BSc, is in his third year of medical studies at the U of A. **Patti Woepfel**, BCom, is a sales representative for Nestle Canada in Toronto.

'90

Mark McCourt, LLB, '87 BA, recently joined the Edmonton law firm Braithwaite Boyle and Associates. He and his wife celebrated their first wedding anniversary in April.

Donald Filipchuk, BSc, is working as a consultant for Price Waterhouse in Calgary, writing custom financial software.

Nancy Goebel, MLIS, will become the head librarian of Augustana U College in Camrose, Alberta in August. She is currently reader services librarian there.

John Guelly, BSc(AgEng), lives in Lethbridge and works as a design engineer. He writes that he plans to get married in 1994.

John Jayachandran, PhD, is teaching at Concordia College in Edmonton.

John Richardson, BCom, is articling as a CA and plans to receive his designation in July.

Michele Rowein (Willey), BSc(PT) and **Cliff Rowein**, '89 BPE, were married last year and are living and working in Edmonton.

Kevin Shanahan, BA, recently completed a master's in international management from the American Graduate School of International Management.

Robert Wereley, BEd, lives with his wife in Abbotsford, B.C. and substitute teaches while he pursues studies in philosophy at Simon Fraser U.

'91

Wanda Fawcett, LLB, '88 BA,

has joined the Edmonton law firm of Bishop and McKenzie as an associate.

Nancy Davies, BSc(Eng), is a production supervisor with Mobil Chemical Canada at its polyethylene plant in Belleville, Ontario.

Denise Harrison (Aasen), BEd, is teaching kindergarten in Leduc and was married last summer.

Douglas Loeffler, BEd, teaches elementary school in the Caribou-Chilcotin area in the interior of B.C.

Andrea Lowther, MSc, lives in Calgary, where she is working as a project coordinator with the Alberta Barley Commission. **Jennifer McMullen**, BSc, works full time at the U of A as a research assistant.

Craig O'Connor, BA, is working as a real estate consultant in Edmonton.

Monica Owens, BEd, is working as a full-time instructor on staff at Augustana U College in Camrose, Alberta.

Mark Rivette, MHSA, lives in Calgary, where he works for Foothills Hospital, serving as a project leader for costing projects and health care funding initiatives.

Cindy Shepherd, BCom, is assistant manager of the new Earl's restaurant in Edmonton's west end.

William Yung, BCom, recently registered as a dealer's representative with the Securities and Futures Commission of Hong Kong and as a sales representative with the Hong Kong Stock Exchange. He is marketing director of Kenlap Investment.

Rodger Gibbs, LLB, '88 BA recently became an associate in the St. Paul, Alberta office of the Orville T.G. Morrow law firm.

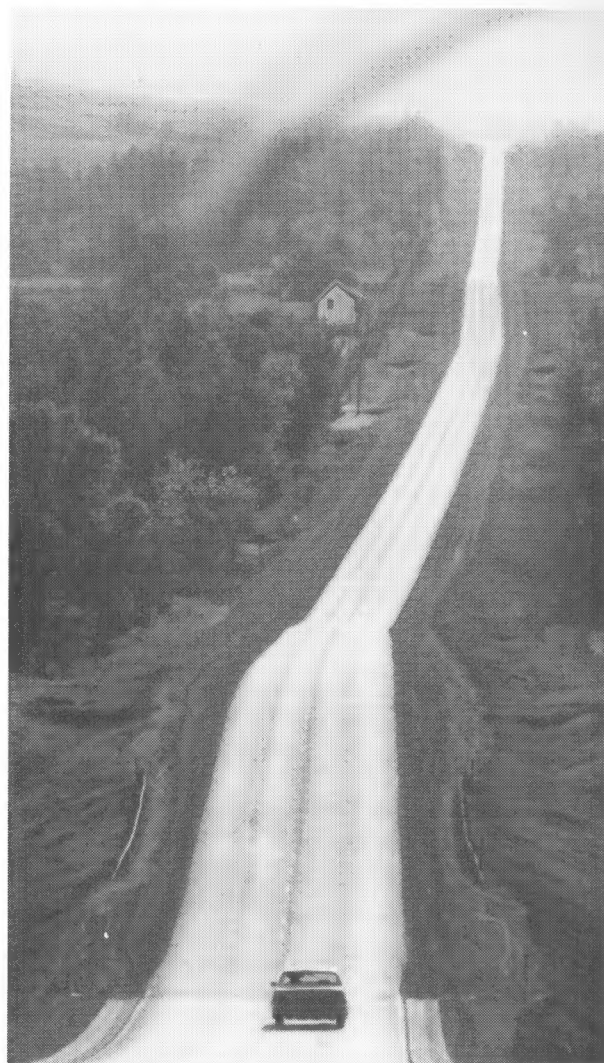
'92

Beverly Cardall, BA(RecAdmin), is a recreation therapist at Capital Care Dickensfield in Edmonton.

Mary-Lynn Dickinson (Crossley), BEd, substitute teaches in the county of Lamont.

Darrell Morin, BSc, is in the first year of a doctor of chiropractic program at Western States Chiropractic College in Portland.

Peter Strickland, BSc(Eng), works for Propak Systems in Calgary. "I stared the recession in the eyes until he blinked and got a job exactly one year from graduation," he writes.



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Keynote Events:

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more detailed information.

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- Monnex presents
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Saturday, October 2

- Breakfast drop-in at University House
- Campus tours
- "Super Saturday" lectures
- Faculty, open houses and other special events
- Gala Dinner and Dance at the Westin Hotel

Sunday, October 3

- The President's Brunch for 1923, 1933 and 1943 graduates at the
Mayfair Golf and Country Club

Please complete and return before September 3, 1993



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